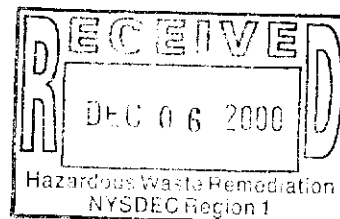


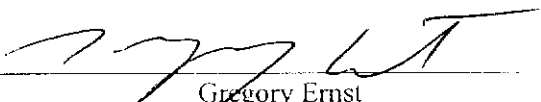
GERAGHTY & MILLER

**SITE INVESTIGATION AND INTERIM REMEDIAL MEASURE REPORT
FOR THE SITE LOCATED AT
425 MERRICK AVENUE, WESTBURY, NEWYORK
NYSDEC SITE ID #130061**

December 4, 2000

Prepared by ARCADIS Geraghty & Miller, Inc.

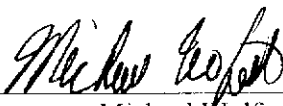




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Disclosure Statement

The laws of New York State require that corporations which render engineering services in New York be owned by individuals licensed to practice engineering in the State. ARCADIS Geraghty & Miller, Inc. cannot meet that requirement. Therefore, all engineering services rendered to the Site located at 425 Merrick Avenue, Westbury, in New York are being performed by GM Consulting Engineers, P.C., a New York professional corporation qualified to render professional engineering services in New York. There is no surcharge or extra expense associated with the rendering of professional services by GM Consulting Engineers, P.C.

ARCADIS Geraghty & Miller, Inc. is performing all those services which do not constitute professional engineering and is providing administrative and personnel support to GM Consulting Engineers, P.C. All matters relating to the administration of the contract with subcontractors are being performed by ARCADIS Geraghty & Miller, Inc. pursuant to its Amended and Restated Services Agreement with GM Consulting Engineers, P.C. All communications should be referred to the designated project manager at ARCADIS Geraghty & Miller, Inc.

1.0 Introduction

On behalf of McMillan, Rather, Bennett and Rigano, counsel for Meadowbrook Management and Realty Company, Inc. (Meadowbrook); Nixon, Hargrave, Devans and Doyle; counsel for New York University (NYU), and Jose Uranga, Esq., counsel for General Applied Science Laboratories, Inc. (GASL), referred herein as the potentially responsible parties (PRPs), ARCADIS Geraghty & Miller, Inc. and its engineering subcontractor, GM Consulting Engineers, P.C. have prepared this Site Investigation and Interim Remedial Measure Report describing the site investigation and interim remedial measures (SI/IRM) for environmental impacts at 425 Merrick Avenue in Westbury, New York, the "Site". A site location map (on a United States Geological Survey [USGS] quadrangle map) is provided in Figure 1-1. This document presents and discusses the on-site activities performed to (1) characterize the environmental impacts at the Site, (2) define and delineate areas of environmental concern (AOCs) that may pose a threat to human health or the environment, and (3) eliminate sources of contamination.

The SI/IRM activities were conducted following the procedures and protocols outlined in the New York State Department of Environmental Conservation (NYSDEC)-approved Site Investigation and Interim Remedial Measure Work Plan (Work Plan) for the Site, NYSDEC Site ID #130061 (Geraghty & Miller 1996) and amended in the Preliminary Report for Interim Remedial Measures and Site Investigation Activities at the Site (Geraghty & Miller 1997). This work was conducted with the understanding that the Site is intended for future commercial development, and that local zoning laws prohibit the use of this Site for residential purposes.

Previous investigations by other consultants (cross-referenced) identified the following potential AOCs at the Site:

- Areas of visually stained soils.
- Grease pits.
- Locations of previously existing aboveground storage tanks (ASTs).
- Former storage areas.
- Storm drains.

In addition, ARCADIS Geraghty & Miller investigated the following potential AOCs:

- Storm drains SD-4 and SD-5.
- The on-site Catch Basin located along the south side of Shed III and east of Building III.
- The three former septic systems.
- Seven test pits not previously sampled.
- Three current and former transformer/power station locations.
- Previous sample locations showing high levels of total petroleum hydrocarbons (TPH).
- The northwest portion of the Site.
- On-site groundwater.

The site layout, building designations and former sampling locations from previous investigations are shown on Figure 1-2.

In conjunction with the site investigation, identified impacted areas were remediated as IRMs. Prior to and during the completion of the site investigation, alternative remedial actions were assessed to address contamination detected at the Site. The alternative remedial actions applicable to the chemical constituents of concern for the Site included contaminant fixation, stabilization, and removal. Vapor treatment technologies were not considered for this project due to the type of contamination found at the Site consisting of semi-volatile organic compounds (SVOCs), polychlorinated biphenols (PCBs), and metals. Contaminant removal was selected as the remedy for the following reasons: (1) to remediate contamination in the shortest timeframe, (2) to achieve unrestricted future use of the Site, (3) the limited volume of contaminated soil found on-site, and (4) cost.

IRMs involving contaminant removal were conducted for areas in which NYSDDEC Recommended Soil Cleanup Objectives (RSCOs) were exceeded based on the previous investigations conducted at the Site, and the site investigation conducted by ARCADIS Geraghty & Miller. These areas included the two grease pits located beneath the vacuum sphere, the vicinity of Test Pit VII, Storm Drain 3, the southern septic system cesspool and leaching ring, Borings B-12, B-17, B-21, the northern septic tank (B-32), Surface Soil Samples A, B, C, D, E, and F, and B-23 (see Figure 1-2).

In addition, waste removal activities were conducted to address potentially hazardous materials inside and adjacent to buildings at the Site as identified by ARCADIS Geraghty & Miller and the NYSDEC during site visits conducted in November 1995 and August 1997. This phase of work was conducted under the oversight and direction of the NYSDEC Division of Solid/Hazardous Materials.

This report provides a description of the Site, a summary of the site history and previous site investigations, a discussion of the AOC procedures used to characterize soil and groundwater quality, and IRM activities at the Site. Results, Findings and Conclusions are also provided.

2.0 Site History

The history associated with the Site was developed from title searches conducted by counsel for the PRPs, from available site records, and from interviews with former employees. The information obtained from these investigations is presented below.

2.1 Property Description

The Site located at 425 Merrick Avenue (Section 44, Block F, Lot 5) consists of approximately 2 acres. The property is located in a commercially zoned area of Westbury, New York, and is bounded by a commercial office building to the north, Eisenhower Park to the east, a commercial office building to the south, and the Meadowbrook Parkway to the west. Currently, one main building is located in the central portion of the property, and several smaller buildings and substructures are located around the main building. A 40-ft diameter vacuum sphere is located on the southern portion of the property, just southwest of the main building. The site layout and building designations are shown on Figure 1-2.

Aerial photographs were reviewed to determine surficial changes to the property over time. Aerial photographs from 1950, 1957, 1962, 1966, 1969, 1972, 1978, 1984, 1986, 1988, and 1992 were reviewed. In the 1950 photograph, the Main Building and Building II were present on the Site. Between 1950 and 1966, Shed I, Shed II, and Shed VII were present. Between 1966 and 1969, Building III, Building IV, Shed V, Shed VI, and Shed IX were present. Between 1969 and 1972, Shed IV was present, and between 1972 and 1978, Shed III and Shed VIII were present. In the aerial photograph from 1986, Shed VI is no longer present, and construction activities are taking place on the adjacent northern property. Details regarding the possible operations that may have occurred in each of these structures are provided in Section 2.3 (Site Use) of this report.

Wastes generated were reportedly placed in a trash container located immediately south of Shed VIII. Wastes from the operation of the site may have included potentially hazardous materials such as metals from laboratory instrumentation (i.e. mercury) and cuttings and filings from the fabrication of tools and testing implements (i.e. cadmium, chromium, etc.), and PCB from dielectric fluids from transformers, capacitors, etc. and from machine oils used in compressors. Dielectric fluids and machine oils may have also contained PAHs as these fluids are petroleum based products.

A groundwater supply well is located in the central portion of the property and two older supply wells are reportedly located in the southwestern portion of the basement of the main building. During a site visit with NYSDEC and Nassau County Department of Health (NCDOH) the two interior wells were located in the boiler room in the basement of the Main Building; the wells were determined to have been previously abandoned, based on discussions with personnel familiar with the Site and visual observations. No public water lines or mains extend to the existing buildings. Electricity was provided to the Site by the former Long Island Lighting Company (LILCO), and is currently shut off. Transformers supplied and maintained by LILCO were formerly located in the southern portion of the property, just south of a concrete vault containing the oil and water storage tanks. During periods of full-scale operations at the Site, power to certain processes was supplemented by on-site power stations/transformers located in Shed VIII, Building III and Shed I under the 40-foot diameter vacuum sphere. Prior to August 1979, the site waste lines discharged to on-site septic systems. A Septic system located along the northern portion of the property in the area of Shed III which received waste from the Main Building. A second septic system located west of the Main Building adjacent to Shed VII also received waste from the Main Building. A third system located just south of the vacuum sphere (Shed I) received waste from Building II (see Figure 1-2). Based on historical site maps, the Site was connected to the sanitary sewers in August 1979. Connection to the sanitary sewer was confirmed during the site investigation.

2.2 Hydrogeology

The Site is underlain by the Upper Glacial aquifer, which is composed of outwash-plain deposits of glacio-fluvial origin (Harbor Hills Drift) consisting of stratified sand and gravel. The saturated thickness of the aquifer ranges from 20 to 40 feet (USGS 1966). Depth to water at the Site ranges from approximately 15 ft below land surface (bls) in the western portion of the Site to approximately 25 ft bls in the northern portion of the Site. The regional direction of groundwater flow within the

Upper Glacial aquifer in the vicinity of the Site is in a southerly direction. The Upper Glacial aquifer is the only formation considered in this investigation.

The Magothy aquifer underlies the Upper Glacial aquifer and is approximately 500 feet thick in the study area (USGS 1966). The Magothy is composed of interbedded lenses of sand, silt, and clay in various mixtures, with coarse sand and gravel deposits common near its base. Within a 1-mile radius of the Site, the identified public supply wells and wells used for irrigation or commercial purposes are installed in the Magothy aquifer.

2.3 Site Use

At the turn of the century, the Site was reportedly the location of a country club. The exact dates of operation of The Country Club are unknown. It appears from the title search that the first corporate occupancy of the building occurred in November 1939, when the Carodix Corporation is identified as the deed owner. Since that time, the Site has been used for commercial purposes.

The Site is currently owned by Meadowbrook Management and Realty Company, Inc., which purchased the property from Merrick and Stewart Realty Corporation (formerly known as ATL Realty Inc.) in October 1984. Based on a 50-year chain-of-title search conducted by counsel for the PRPs, the following owners have been identified for the Site: Carodix Corporation, 1939; County of Nassau, 1943; Aeromotive Corporation, 1944; V-Tor Sales Corporation, 1950; Servomechanisms Inc., 1951; Stewart Westbury Associates, 1968; Max Rothenburg, 1972; Price & Jessop, Inc., 1972; ATL Realty Inc., 1973 (a.k.a. Merrick & Stewart Realty); and Meadowbrook Building Corp. (a.k.a. Meadowbrook Realty Company, Inc.), 1984.

An analysis of historical lease holdings at this property, conducted by counsel for the PRPs, has identified the following tenants at the facility which are listed alphabetically: Advanced Technology Laboratories, Inc. (ATL), Aeromotive Corporation, GASL, J&J Plastics, Kahn Communications, Inc., NYU Laboratory, Servomechanisms, Variteck, Inc., and Westbury Combustion Corporation. ARCADIS Geraghty & Miller could not identify any documentation regarding site activities by Aeromotive Corporation, J&J Plastics, Servomechanisms, or Variteck. Kahn Communications was reportedly in the telecommunications business, and ATL, GASL, NYU, and Westbury Combustion Corporation were involved with research and development (R&D) for the aerospace industry and various governmental agencies.

Building permits with the Town of Hempstead suggest that Servomechanisms obtained permits to construct a 275-gallon gasoline AST, housing for compressors, a foundation for laboratory equipment, a laboratory extension, the foundation for an experimental laboratory, and a 40-ft diameter vacuum sphere. Based on site visits conducted by ARCADIS Geraghty & Miller on August 4 and 10, 1995, the 275-gallon gasoline storage tank is no longer present on-site.

A statement of company qualifications prepared by ATL indicates that ATL began coordination of its activities with GASL at the Westbury site in early 1974. This agreement included an exchange of technical personnel and sharing of experimental and computational facilities. The ATL/GASL engineering R&D firm specialized in aeronautical sciences. In 1979, GASL separated from ATL but remained on the Site. Experimental facilities at the Site included a blow-down type wind tunnel, a shock tunnel, shock tubes, combination test facilities, and a microwave instrumentation laboratory. ARCADIS Geraghty & Miller understands that GASL left the Site in June 1986.

The NYU Antonio-Ferri Laboratory (formerly the NYU Aerospace & Energetics Labs) was formerly operated at the Site jointly with ATL beginning in 1974. NYU conducted similar activities to those listed above for ATL and GASL. During the energy crisis in the 1970s, NYU was also involved with R&D involving cost-effective and energy efficient alternatives, including a fluidized bed coal combustion facility at the Site. ARCADIS Geraghty & Miller understands that NYU left the Site in 1989.

In summary, the Site has historically been occupied by tenants who utilized the facilities for various laboratory and R&D work. Probable activities and processes that may have occurred in each building (based on information obtained by ARCADIS Geraghty & Miller) are summarized in Table 2-1.

2.4 Previous Investigations

CA Rich Consultants, Inc. (CA Rich) and U.S. Hydrogeologic, Inc. conducted intrusive investigations at the Site in 1991 and 1994, respectively. ARCADIS Geraghty & Miller has conducted an extensive file review and two site inspection surveys. The results of each of these investigations are summarized below.

2.4.1 CA Rich Consultants, Inc.

In April 1991, Meadowbrook Realty Corporation retained CA Rich of Sea Cliff, New York, to conduct a waste characterization and Preliminary Site Investigation of

the Site (CA Rich 1991). As part of this investigation, CA Rich prepared an inventory of all materials in tanks and containers remaining on the property, defined all areas of spillage, contracted with a licensed waste transporter to have the materials removed from the Site and prepared a waste inventory for the Site (manifests associated with the removal of this material are included in Appendix A of the Work Plan). In addition, CA Rich conducted intrusive work, which included the collection of soil and groundwater samples in areas of environmental concern. After completion of the CA Rich investigation, approximately 10 to 20 containers, gallon-size or less, which may have contained hazardous substances, were left on-site.

The AOCs investigated by CA Rich included the former drum storage areas, the grease pits, the dry wells, the locations of former ASTs, the pebble bed heater pit, and the areas surrounding heavy-duty vacuum pumps and compressors. Based on the sampling locations, test pits were dug in areas where surficial soil staining was identified (i.e., areas of ASTs and drum storage areas), and soil borings were drilled in the vicinity of storm drains and drum storage areas.

In June 1991, CA Rich investigated nine test pits in areas of visually stained soils and, based on field instrument readings (FID/PID), collected soil samples from two of these test pits (TP-1 and TP-2), sediment samples from three storm drains (SD-1, SD-2, and SD-3), and liquid (GP-1) and sludge (GP-2) samples from two grease pits. The locations of these sampling points are shown on Figure 2-1. Soil, sediment, and waste samples were submitted to NY Test Environmental, Inc. of Port Washington, New York, for analysis of volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), total petroleum hydrocarbons (TPHs), and polychlorinated biphenyls (PCBs). A summary of these analytical results is provided in Appendix A. A map showing the distribution of compounds detected during previous investigations conducted on-site is provided on Figure 2-2.

In August 1991, CA Rich conducted additional investigative work at the Site, which included collecting soil samples from Soil Borings B-1 through B-9 and groundwater samples IIP-1 through IIP-4 with the use of a Geoprobe sampling rig. The sampling locations are shown on Figure 2-1. These samples were also submitted to NY Test Environmental for analysis of VOCs, TPHs, PCBs, and Resource Conservation and Recovery Act (RCRA) metals. A summary of these analytical results is provided in Appendix A.

The data collected by CA Rich Consultants indicated that PCBs were present in on-site soils. PCBs were detected in sample TP-2 from Test Pit VII and in Sediment Sample SD-3 collected from Storm Drain SD-3 at concentrations of 2,670 parts per

million (ppm) and 2.1 ppm, respectively. These concentrations exceed the January 1994 NYSDEC RCOs (NYSDEC 1994) of 10 ppm total PCBs in subsurface soils and 1.0 ppm total PCBs in surface soils. Test Pit VII was dug in the waste disposal area immediately south of Shed VIII, (which formerly housed the pebble bed heater and a power station). Storm Drain SD-3 is located in a topographically low area of the Site, west of the main building. PCBs were also detected in the composite sludge sample collected from the bottom of the grease pits (GP-2) at a concentration of 33 ppm. These grease pits are located east and west of the 40-ft diameter vacuum sphere, in an area that formerly housed high pressure compressors and vacuum pumps. Elevated concentrations of TPH (>50,000 ppm) were also detected in these samples (TP-2, SD-3, and GP-2).

With the exception of one isolated occurrence of naphthalene, detected in soils in the northern portion of the property (TP-1), all other organics detected in soils were below the NYSDEC RCOs. Chromium (50.9 ppm) and mercury (1.35 ppm) were detected in soil samples collected from Boring B-2 (east of Test Pit VII) at concentrations above the NYSDEC Recommended Soil Cleanup Objective of 50 ppm for chromium and 0.1 ppm for mercury. C.A. Rich concluded that the soils that have been impacted are limited to shallow subsurface and surficial soils, in the location of Test Pit VII, and the concentrations of constituents are not persistent with depth.

Chromium (210 micrograms per liter [ug/L]) and lead (266 ug/L) were detected in a groundwater sample collected from IIP-1, which is located in the vicinity of Test Pit VII. The concentrations of chromium and lead detected exceed the NYSDEC Ambient Groundwater Quality Standards for a Class GA Aquifer of 50 ug/L for chromium and 25 ug/L for lead. ARCADIS Geraghty & Miller believes that these groundwater samples, collected with a GeoProbe sampling unit, were turbid and not filtered prior to laboratory analysis of metals. As such, these results are more likely representative of the concentration of metals sorbed to the suspended sediment in the sample, as well as the dissolved metals in the groundwater, and are not representative of groundwater quality for metals.

Toluene (32 ug/L), ethylbenzene (16 ug/L), and xylene (57 ug/L) were detected in a groundwater sample collected from IIP-3, which is located in the northern portion of the property. Since this sample was collected in an area that is hydraulically upgradient of the Site, toluene, ethylbenzene and xylene may have originated from an off-site source. Potential upgradient sources are discussed in more detail in Section 2.4 (Regional Overview) of the Work Plan.

In August 1992, CA Rich collected representative residue (Residue C-9) and waste oil (liquid waste oil C-2) samples from the oil reservoirs of the heavy duty compressors and vacuum pumps remaining on-site. In addition, a soil sample (D-1) was collected from the base of the pit that formerly housed the pebble bed heater. These samples were analyzed for PCBs by EcoTest Laboratories of West Babylon, New York. A summary of these analytical results is provided in Appendix A.

The results of the residue sample (C-9) collected indicated that PCBs (Aroclor 1210 and Aroclor 1254) were present at concentrations of 10 ppm and 5 ppm, respectively. The results of the liquid waste oil sample (liquid waste oil C-2) collected indicated the presence of PCBs, (Aroclor 1248 and Aroclor 1254) at concentrations of 9 ppm and 13 ppm, respectively. Aroclor 1254 (1.3 ppm) was also detected in the soil sample collected at the base of the pit that formerly housed the pebble bed heater.

2.4.2 U.S. Hydrogeologic, Inc.

In November 1994, U.S. Hydrogeologic of Poughkeepsie, New York, installed five Geoprobe points to collect groundwater samples at the Site. The locations of these sampling points are shown on Figure 2-1. Groundwater samples were collected from four of these points (H-1, H-3, H-4, and H-5) and submitted to Laboratory Resources, Inc. of New Jersey, for analysis of VOCs, polynuclear aromatic hydrocarbons (PAHs), PCBs, mercury, selenium, arsenic, lead, priority pollutant metals, and TPIIs. Samples collected for metals analysis were filtered in the laboratory prior to analysis. A summary of these analytical results is provided in Appendix A.

The analytical results of these samples indicated that no constituents were detected at concentrations above the NYSDEC Ambient Groundwater Quality Standards for Class GA groundwaters, except for PCBs (Aroclor 1248 and Aroclor 1210), which were detected in Sample H-1, located in the vicinity of Test Pit VII. Just as metals sorb readily to sediment in a groundwater sample, so will PCBs; therefore, the presence of PCB constituents in the groundwater sample may be biased toward PCBs sorbed to suspended sediment in the groundwater sample instead of PCBs dissolved in the groundwater.

2.4.3 Geraghty & Miller, Inc.

In August 1995 and November 1995, Geraghty & Miller conducted site visits at the Site, reviewed available files, and conducted an investigation into regional

environmental concerns in the area. An overview of the regional environmental issues identified is presented in Section 2.5 (Regional Overview) of the Work Plan.

The objective of the site visits was to assess current conditions at the Site, identify the locations of previous sampling activities, and identify additional AOCs that would require sampling.

3.0 Areas Of Environmental Concern (AOCs)

ARCADIS Geraghty & Miller's understanding of environmental conditions at the Site is based on the previous investigations conducted by CA Rich and U.S. Hydrogeologic, the information reviewed in available files, and its own site investigation. The following sections summarize AOCs at the Site. The AOCs are shown on the Site Plan (Figure 1-2)

3.1 Previously Identified AOCs

Based on investigations conducted at the Site by CA Rich and U.S. Hydrogeologic, the AOCs at the Site that were determined to warrant remediation include: soils in the vicinity of Test Pit VII, the liquid and sludge contained in the grease pits located in the vicinity of the vacuum sphere, and the sediment in Storm Drain SD-3. The IRMs conducted in each of these AOCs are discussed in Section 4.0 (Site Investigation and Interim Remedial Measures).

3.2 Additional Potential AOCs

Based on the results of the investigations conducted by CA Rich and U.S. Hydrogeologic, the site walk-throughs conducted by ARCADIS Geraghty & Miller, the files reviewed, and the site investigation, additional potential AOCs identified to be investigated included the following:

- Storm drains SD-4 and SD-5.
- The on-site dry well located along the south side of Shed III and east of Building III.
- The three former septic systems.
- Seven test pits not previously sampled.
- Current and former transformer/power station locations (total of three).

- Previous sample locations showing high levels of petroleum hydrocarbons (TPH).
- The northwest portion of the Site.
- On-site groundwater.

Storm Drains SD-4 and SD-5 are located in the vicinity of SD-3 (see Figure 1-2), which is in a topographically low area of the Site. Because the concentrations of PCBs detected in SD-3 are above the NYSDEC RCO, similar conditions were thought to exist in the other storm drains located in this area. Historic site discharges may have been to the on-site dry well and/or septic systems, therefore, ARCADIS Geraghty & Miller conducted a subsurface discharge investigation in these AOCs.

Stained soils which were the focus of previous test pits were investigated to determine if soil impacts were present in these areas. These areas are shown on Figure 1-2. Surface soil sampling was conducted at the locations of seven test pits not previously sampled during the CA Rich investigations. One soil sample was collected from the vicinity of each test pit and analyzed in the field by ARCADIS Geraghty & Miller with an immunoassay (D Tech) field test kit for PCBs.

The former transformer/power station locations shown on Figure 1-2 were investigated concurrently with other AOCs during the investigation and IRM activities. These locations and the concurrent investigation and IRM activities were as follows:

- The former transformer at the northwest corner of Building III was investigated by collecting shallow soil samples from previous Test Pit III, Test Pit IV, and B-13,
- The former power station that was located within Shed VIII along its southern exterior wall was addressed by the IRM excavation and sampling of the previous Test Pit VII outlined in Section 4.2.1 of this Report.
- The former transformer location along the southern exterior wall of the aboveground water and oil storage tank structure, east of the vacuum sphere was sampled and analyzed in the field by ARCADIS Geraghty & Miller with an immunoassay (D Tech) field test kit for PCBs.

The previous investigations by CA Rich detected TPH above 1,000 milligrams per kilogram (mg/kg) in seven soil samples (see Appendix A, Table 4). Additional samples were collected from these locations during investigation and IRM activities and submitted for laboratory analysis of petroleum related VOCs and SVOCs identified in this report as PAHs.

To address data gaps from previous investigations, two soil borings (B-12 and B-13) were drilled and sampled in the northwestern portion of the Site, six surface soil samples (A, B, C, D, E, and F) were collected adjacent to B-12 and west of Building II, and three groundwater monitoring wells were installed (MW-1, MW-2 and MW-3). Soil borings in the northwestern portion of the Site were drilled to assess general site conditions and parking lot run-off across the northern portion of the Site. Surface soil samples were collected to address New York State Department of Health concerns regarding potential impacts where soil was exposed at grade. The installation and sampling of monitoring wells on the Site were carried out to determine groundwater flow direction and assess potential impacts from constituent concentrations in soil observed at the Site above the applicable soil cleanup criteria. The location of soil borings and monitoring wells are shown on Figure 1-2.

The analytical results of site investigation soil samples helped to identify locations where additional IRM activities would be required to remediate various constituent concentrations that were in exceedance of the NYSDEC RCOs. These locations include surface soil sample locations A, B, C, D, E, and F and Borings B-12, B-16, B-17, B-21, and B-23.

Potentially hazardous materials remaining inside and adjacent to buildings as identified by ARCADIS Geraghty & Miller and the NYSDEC during site visits conducted in November 1995 and August 1997 were removed as directed by the NYSDEC Division of Solid/Hazardous Materials in a letter to Geraghty & Miller dated September 17, 1997. Additional inspections of the interior of the on-site buildings were conducted by ARCADIS Geraghty & Miller to determine the presence of any interior floor drains, additional potentially hazardous materials, and supply wells.

The site investigation and IRM activities are summarized in Section 4.0 (Site Investigation and Interim Remedial Measures) and were conducted under the field sampling protocols included in Appendix D (Field Sampling Plan) of the Work Plan.

4.0 Site Investigation And Interim Remedial Measures

The goal of the site investigation in the identified AOCs was to collect the data necessary to delineate on-site soil and groundwater impacts. The IRMs were conducted to eliminate on-site soil impacts identified during previous and current site investigations in order to expedite site remediation and delisting from the NYS registry. Based on ARCADIS Geraghty & Miller's investigation, impacts to groundwater were not observed, therefore, the remediation of groundwater was not included in this scope of work. The locations of the IRMs and site investigation soil samples are shown on Figure 1-2. All field activities were conducted in accordance with the Field Sampling Plan (FSP) provided in Appendix D of the Work Plan. A list of sample locations and analyses is provided in Table 4-1.

Prior to initiating the site investigation and IRM activities, certain engineering tasks were performed to provide adequate and safe access to areas being investigated and remediated. Site preparation consisted of the partial demolition of Shed VIII, adjacent to Test Pit VII, and the removal of overhead piping and piping support structures associated with the vacuum sphere in the area of the grease pit (GP-2). The removal of these structures was conducted in a manner so that the remaining structures and foundations were not compromised. This work, including the IRM excavations, was conducted by Brookside Environmental of Baldwin, New York. Site investigation soil samples were collected using a hydraulic drive point sampler (Geoprobe) supplied and operated by Zebra Environmental Services of Inwood, New York.

Laboratory analysis was provided by American Environmental Network (AEN), Inc., formerly Industrial and Environmental Analysts, Inc. (IEA), of Monroe, Connecticut, which is a New York State Department of Health (NYSDOH)-certified laboratory. The Quality Assurance Program Plan (QAPP) from AEN is on file at the ARCADIS Geraghty & Miller office in Melville, New York. Analytical parameters, analytical methods, sample containers, sample volumes, preservatives, and holding times are provided in the Quality Assurance Project Plan (QAPjP) provided in Appendix E of the Work Plan. Analytical methodologies, quality assurance/quality control (QA/QC) criteria, and reporting procedures conformed with NYSDEC Analytical Services Protocols (ASP) Contract Laboratory Program (CLP) methods and Quality Assurance Guidelines for Using Immunoassay Field Screening. In addition, all field activities associated with the site investigation and IRM excavations were conducted in compliance with the Health and Safety Plan (HASp) provided in Appendix F of the Work Plan. A Citizen Participation Plan (CPP) has been prepared for the site investigation and IRM and is provided in Appendix B.

4.1 Site Investigation

The site investigation was conducted to evaluate the potential AOCs previously discussed (Areas of Environmental Concern Section above). This section presents a summary of the site investigation activities conducted at the Site.

4.1.1 Soil Quality

Prior to soil sample collection, the locations of subsurface structures, such as the septic fields and a dry well, were confirmed by performing excavations. The northern septic field was found to be north of the shock tunnel. However, the dry well thought to be south of the vacuum sphere, was identified as a septic system consisting of a cesspool and leaching ring located further west, within the TP-VII IRM excavation area. An additional subsurface structure, a catch basin, was identified at the southwestern end of the shock tunnel. Sediment and water samples were collected from the cesspool and a soil sample was collected from a soil boring drilled at the additional catch basin. The site investigation soil sample locations and their designations are shown on Figure 1-2.

4.1.1.1 Soil Sampling

On July 30 and 31, 1997, site-wide soil sampling was conducted at the locations shown on Figure 1-2. As outlined in the Work Plan, sample depth and analytical parameters varied throughout the Site based on the characteristics of each individual AOC.

Former test pit locations which had not been previously analyzed were sampled at depths between zero to two feet below grade, screened for VOCs with a PID, analyzed for PCBs using a D-Tech immunoassay field test kit, and submitted for analysis of PCBs and PAHs. Samples collected at the former locations of transformers were also sampled from zero to two feet below grade and submitted for analysis of PCBs only.

Seven locations where high concentrations of TPH ($>1,000$ mg/kg) were detected during previous investigations were re-sampled. Three of these locations were within Test Pit VII, the grease pits, and SD-3, and were sampled in accordance with the IRM activities outlined in Section 4.1. The remaining four locations, SD-1, SD-2, TP-1, and B-2, were sampled at the same depth as the previous samples and analyzed for petroleum related VOCs and PAHs.

Soil samples connected with subsurface structures (septic systems and Storm Drains SD-4 and SD-5) and general site-wide conditions (B-12 and B-13) were collected at five foot intervals from the base of the structure (or land surface at B-12 and B-13) to the top of the water table (approximately 20 feet below grade). One sample from each location exhibiting the highest field screening result for VOCs using a PID was submitted for laboratory analysis for PCBs and PAHs.

Soil samples were collected using a hydraulic drive point sampler (Geoprobe). The field methodologies for soil sample collection were detailed in the FSP provided in Appendix D of the Work Plan. A summary of soil sample details is provided in Table 4-1. Copies of the soil boring Sample/Core Logs are provided in Appendix C. The results of the field immunoassay testing are provided in Appendix D. Laboratory analytical results for the former test pit locations are discussed in Section 5.0 (Results) of this report.

As specified in the Work Plan, 20 percent of all soil samples were analyzed for an expanded parameters list comprised of the Target Compound List (TCL) VOCs, SVOCs, and PCBs, and the Target Analyte List (TAL) metals. Sample locations B-16, B-17, B-21, B-23, and the southern wall of the TP-VII excavation (TP-VII S) were selected for the analysis of the expanded parameter list. These locations were selected based on the criteria provided in Section 4.2 of the Work Plan to assess constituent concentrations across the Site in the shallow (0 to 2 foot interval) soils. The result of the analysis of the expanded parameters list are discussed below (Section 5.0 Results).

4.1.1.2 Supplemental Site Investigation

On May 31, 2000 and June 1, 2000, a supplemental investigation was conducted. The locations of the supplemental investigation soil samples are provided on Figure 1-2. The supplemental sampling addressed exposed soil in the vicinity of B-12 where PCBs were detected in surface soil at a concentration above the NYSDEC soil cleanup objective (see Section 4.2.1.1). Surface soil samples were also collected in the area west of Building II to address concentrations of mercury above the NYSDEC RCO in a surface soil sample from B-23 (see Section 4.2.3). Finally, the material found within the septic tank located on the north side of the Main Building (see Section 2.1) was sampled to address potential historical sanitary waste discharged from the Main Building. The samples were screened for VOCs using a PID and submitted for analysis of PCBs and mercury.

Supplemental soil samples were collected using a stainless steel hand auger. Supplemental soil samples were collected using the field methodologies provided in

the FSP (Appendix D of the Work Plan) with the exception that, at the request of the New York State Department of Health (NYSDOH) and the NYSDEC, surface soil samples were collected from only the top six-inches of soil. A summary of the supplemental soil sample results provided in Table 4-1. Copies of Sample/Core Logs are provided in Appendix C. Laboratory analytical results are provided in Section 5.0 (Results).

4.1.2 Groundwater Quality

Three monitoring wells were installed into the shallow water table (Upper Glacial) aquifer based on the collected soil quality investigation and IRM analytical results. The locations of the water table wells are shown on Figure 1-2. The field methodologies for groundwater well installation and sampling are detailed in the FSP provided in Appendix D of the Work Plan.

4.1.2.1 Monitoring Well Installation

The soil quality investigation and IRM analytical results indicated that soil impacts generally occurred along the western portion of the property. Therefore, the shallow groundwater wells were installed in the following locations: upgradient well MW-1 was installed at the northern boundary of the Site between Borings B-15 and B-16 to assess background groundwater quality. MW-2 was installed south of GP-1 to assess potential groundwater impacts from PCBs concentrations observed in the bottom of GP-1 (GP-1 represented the deepest soil impacts detected on the Site), and well MW-3 was installed adjacent to the TP-VII IRM excavation to assess potential groundwater impacts along the western boundary of the Site, downgradient of the majority of the research structures located in Building II and Sheds III, VII, VIII, and IX. The well locations were also selected to determine groundwater flow and the hydraulic gradient at the Site.

The wells were drilled using the hollow stem auger drilling method. Groundwater was encountered at approximately 20 fbls. Therefore, the groundwater monitoring wells were installed to a total depth of approximately 30 fbls. The wells were constructed of 4-inch diameter polyvinyl chloride (PVC) with 10 feet of 0.010 slot well screen and blank casing to grade. The wells were completed with a Moric #0 sand pack, bentonite seal, and cement grout to grade. The wells were secured with a protective steel surface casing and locking cap. Once installed, the wells were developed until turbidity measured from each well stabilized below 50 nephelometric turbidity units (NTUs). The location and elevation of the wells were surveyed by Shah Associates, a New York State-licensed surveyor. The well

construction and development details are recorded on well construction logs provided in Appendix E.

4.1.2.2 Groundwater Sampling

Groundwater samples collected on three occasions; January 14, 1998; March 12, 1998; and May 13, 1998 from the existing supply and three newly installed monitoring wells. Prior to the start of sampling activities, a complete round of water-level measurements was collected to determine groundwater flow conditions. Water-level measurements are provided in Table 4-2. Prior to sample collection, the wells were purged using a submersible pump. During purging, field parameters; pH, specific conductivity, and temperature, were monitored. The purging of the monitoring wells was completed when field parameter measurements stabilized to within 10 percent between consecutive readings. Once purging was completed, the submersible pump was removed and the groundwater sample was collected using dedicated disposable polyethylene bailers. Groundwater samples were submitted for laboratory analysis of TCL VOCs, SVOCs, PCBs, and TAL metals.

During groundwater sample collection on January 14, 1998, turbidity was observed to increase during sampling. The increase in turbidity is attributable to the high percentage of silt observed in the formation in which the wells were screened. The turbidity within the existing supply well during the initial sampling remained at levels above 50 NTUs and did not equilibrate after purging 5 well volumes. After the sample was collected from the supply well, the well was sounded and determined to have accumulated approximately 8 feet of silt in the bottom.

To assess the effects of the elevated turbidity in the groundwater samples, additional samples were collected from Wells MW-1 and N10115T for analysis of dissolved metals. Dissolved metals samples were field filtered through 0.45 micron (um) filter prior to preservation consistent with the procedures outlined in the FSP.

4.2 Interim Remedial Measures

Based on the results of previous and current site soil investigations IRMs were required as follows:

- The excavation and proper off-site disposal of PCB-impacted soils in the areas of previous Test Pit VII (ROADBED) and Test Pit VI (B-21); within Grease Pit 1 (GP-1), Grease Pit 2 (GP-2), and Storm Drain 3 (SD-3); and surrounding Soil Borings B-12, B-21, B-32, A, B, C, D, E, and F.

- The excavation and proper off-site disposal of SVOC-impacted sludge from within the cesspool and leaching ring located south of the vacuum sphere (B-22).
- The excavation and off-site disposal of mercury, copper, and chromium impacted soils surrounding Soil Borings B-17, B-23, B-32, D, E, and F.

Soils, which have been determined to be impacted with PCBs, VOCs, and metals, were excavated and removed for proper disposal (see Section 4.4).

4.2.1 PCB-Impacted Soil

From July 25, 1997 to July 30, 1997, IRM excavations to remove PCB-impacted soils were conducted at the former Test Pit VII (TP-VII), Grease Pit 1 (GP-1), Grease Pit 2 (GP-2), and Storm Drain 3 (SD-3). IRM excavations were observed by the NYSDEC case manager for the Site. Approximately 110 cubic yards of soil were removed during the excavation at TP-VII which measured 15 feet wide by 20 feet long by 3 and 6 feet deep. GP-1 was excavated to 5 feet wide by 5 feet long by 12 feet deep resulting in removal of approximately 10 cubic yards of soil. The IRM excavation at GP-2 involved the removal of approximately 10 cubic yards of soil from an excavation measuring 6 feet wide by 6 feet long by 8 feet deep. Approximately one cubic yard of soil was removed from within SD-3 which was measured to be approximately 3 feet square by 3 feet deep.

The limits of the IRM excavations for PCBs were determined using D-Tech immunoassay field test kits to indicate when the cleanup criteria of 10 milligrams per kilogram mg/kg had been met as specified in the Work Plan. Field immunoassay field test results are provided in Appendix D. End point samples were collected from the excavations for laboratory confirmation of the field test kit results. Five composite samples, the north, south, east, and west side walls and bottom, were collected from the excavation at TP-VII. Since additional soil had been removed from the bottom of GP-1, based on the field test kit results, two composite samples were collected from the excavation at GP-1, one composite sample from all four side walls and one composite sample from the bottom. One composite sample was collected from the sidewalls and bottom of the GP-2 excavation since this excavation was limited to the removal of GP-2 alone. One grab sample was collected from the bottom of SD-3. These samples were submitted for laboratory analysis of PCBs, VOCs, and PAHs in accordance with the QAPjP (Appendix E of the Work Plan). The laboratory analytical results were used to confirm field test results and to evaluate the necessity of additional investigation or excavation in these areas. The approximate configuration of the IRM excavations

and the locations of end-point soil samples are shown on Figures 4-1, 4-2, and 4-3. For safety reasons, the excavations were lined with plastic and backfilled to grade with clean soil pending the receipt of laboratory analytical results.

The laboratory results of end point soil samples detected concentrations of PCBs greater than the NYSDEC RCO of 10 milligrams per kilogram (mg/kg) in the sample from the south wall of the Test Pit VII excavation (Sample TP-VII S) at 98 mg/kg and in the bottom of GP-1 (GP-1 [BTM]) at 211 mg/kg. In addition, the site investigation soil samples from 0 to 2 feet below grade in B-12 detected PCBs at 2.89 mg/kg which exceeded the RCO of 1.0 mg/kg for surface soils and in B-21 at 290 mg/kg which exceeded the RCO of 10 mg/kg for subsurface soils. The laboratory analytical results for the IRMs for PCB-impacted soils are further discussed in the Results Section below.

Prior to removing additional soil from GP-1, the vertical limit of PCB concentrations exceeding the cleanup criteria needed further delineation to determine excavation equipment requirements and if foundation shoring or dismantling of the vacuum sphere was needed to complete the IRM excavation. Therefore, a soil boring was drilled in the center of the backfilled GP-1 excavation. Continuous soil samples at two-foot intervals were collected from the bottom of the IRM excavation (12 feet below grade) and analyzed using the immunoassay field test kits. The results of the field immunoassay testing indicated that PCB concentrations at and below the bottom of the initial IRM excavation were in compliance with the cleanup criteria for subsurface soils. Based on these results, the soil boring was ceased at 18 feet below grade and the bottom two soil sample intervals (14 to 16 feet below grade and 16 to 18 feet below grade) were submitted to the laboratory for confirmatory analysis of PCBs. The laboratory results for these samples were in agreement with the field immunoassay test results. ARCADIS Geraghty & Miller concluded, in agreement with the NYSDEC, that the initial IRM excavation removed a sufficient amount of soil from the bottom of GP-1 to meet the RCO.

4.2.1.1 Continued IRMs for PCB-Impacted Soil

Additional soil was removed from the south wall of TP-VII and from the areas surrounding B-12, B-21, B-32, A, B, C, D, E, and F. As with the initial IRM excavations, the end point soil samples were field-tested using the immunoassay test kits. An additional 3 feet of soil to a depth of 6 feet bls was removed from the south wall of TP-VII. The excavation surrounding B-12 measured 10 feet long by 10 feet wide by 2 feet deep equaling approximately 7.5 cubic yards of material. The excavation surrounding B-21 extended 8 feet wide by 8 feet long by 3 feet deep

equaling approximately 7 cubic yards. A single excavation encompassed Samples A, B, and C that extended approximately 22 feet long by approximately 21 feet wide by 3 feet deep equaling approximately 51 cubic yards of material. The IRM excavation at Samples D, E, and F also addressed mercury impacts and is discussed in Section 4.2.3 below.

The excavation surrounding B-32 (the former septic tank north of the Main Building) measured approximately 12 feet long by 5 feet wide by 6 feet deep and completely removed the septic tank structure and its contents. The septic tank was observed to be constructed of concrete roof, walls, and floor. The tank consisted of three chambers with two abandoned entrance pipes from the Main Building. A third pipe was observed but could not be traced due to the collapsed façade of the building overlaying the pipe. Approximately 13 cubic yards of material were removed surrounding B-32.

Final end point soil samples were submitted for laboratory analysis. One composite sample, TP-VII SW, was collected from the south wall of the TP-VII excavation and submitted for analysis of PCBs, TAL inorganics (see Section 4.2.3 Metals-Impacted Soil), and pesticides. One composite sample was collected from the excavation surrounding B-12 for analysis of PCBs and two composite soil samples, one from the sides and one from the bottom of the excavation, were collected from the excavation surrounding B-21 for analysis of PCBs and pesticides. Pesticides were analyzed in these locations to address NYSDEC split sample results from the initial IRM excavations at TP-VII and GP-1 discussed above. One end point composite sample, CP1, was collected from beneath the former Main Building septic tank (site investigation sample B-32). Five end point composite samples, one from each side plus the bottom of the excavation, were collected from the area surrounding Samples A, B, and C for analysis of PCBs and mercury.

An asphalt drainpipe was observed in the excavation of GP-2. The pipe was located directly beneath the floor slab in Shed VIII and further investigation showed that the piping emerged in SD-5. The slope of the piping indicated that the pipe acted as an overflow from GP-2 into SD-5. Due to the absence of PCB impacts in GP-2 and SD-5, additional sampling along the pipe was not conducted. No other piping was found in association with either GP-1 or GP-2.

4.2.2 PAH-Impacted Soil

Water and sludge samples from the cesspool and a sediment sample from the leaching ring (B-22) were collected and analyzed for PCBs and PAHs by ARCADIS Geraghty & Miller and the NYSDEC. Based on the presence of 1,2,4-

trichlorobenzene (an SVOC) at 11 mg/kg in exceedance of recommended soil cleanup criteria of 3.4 mg/kg in the split sample collected by the NYSDEC, an IRM was conducted for the sediments within the cesspool and leaching ring located south of the vacuum sphere.

The cesspool was observed to be constructed of concrete lined brick with solid walls and bottom. The leaching ring was constructed of masonry blocks and connected to the cesspool by asphalt drainage pipe. The sediments from these structures were removed using a vacuum truck. All sediments were removed from the cesspool, and within the leaching ring. Approximately 3 feet of sediments to 11 feet below grade were removed at which depth field screening with a PID and visual observations of the underlying soil indicated the SVOC impacts were removed. The leaching ring required backfilling due to damage to the concrete cover while it was being removed. For safety reasons, the cesspool and leaching ring were backfilled to grade with clean fill following the completion of excavation activities.

Following the removal of the sediments, a composite end point soil sample from 3 locations the bottom of the leaching ring, was collected in accordance with the protocols provided in the FSP (Appendix D of the Work Plan). The sample was submitted for laboratory analysis of TCL SVOCs (which included 1,2,4-trichlorobenzene in its analytical list) in accordance with the procedures specified in the QAPjP (Appendix E of the Work Plan).

4.2.2.1 Test Pit

PAHs were detected at 8 locations in shallow soils across the Site. In general, these concentrations of PAHs coincided with former roadbed material observed between 0.5 to 2 feet bls in soil borings and IRM excavations through-out the Site. A test pit was excavated at B-16 (the location of the highest frequency of detections and greatest concentrations of PAHs) to assess the depth of the roadbed material and confirm that PAH concentrations were restricted to the shallow zone (0.5 to 2 fbls).

A soil sample collected from B-16 had the highest concentrations of PAHs at the Site. Benzo(a)anthracene at 1,200 micrograms per kilogram (ug/kg), chrysene at 1,400 ug/kg, benzo(b)fluoranthene at 1,300 ug/kg, benzo(k)fluoranthene at 1,100 ug/kg, and benzo(a)pyrene at 1,100 ug/kg in the soil sample from B-16 exceed the NYSDEC Recommended Soil Cleanup Objectives. At the request of the NYSDEC, a test pit was completed at this location to delineate the vertical extent of the PAHs in the subsurface. The limit of the excavation was based on field screening using a PID and visual observations of soil staining. The excavation was completed at 5 feet

wide by 5 feet long by 2 feet deep. Approximately 2 cubic yards of soil was removed from this IRM excavation and stockpiled for off-site disposal.

A composite sample (B-16A) of the Test Pit was collected from the bottom of the excavation for laboratory analysis of PAHs. The composite sample was collected using the sampling procedures provided in the FSP (Appendix D of the Work Plan). The results of the end point sample analysis are presented in the Results section below.

4.2.3 Metals-Impacted Soil

Concentrations of arsenic, cadmium, chromium, copper, mercury, and nickel were detected in Sample TP-VII S above their respective NYSDEC RCO. These impacts were addressed during the continued IRM excavation in TP-VII to remove residual PCB impacts (see Section 4.2.1 above) and a second end-point samples was collected and analyzed for metals. While beryllium, iron, and zinc were detected above the published RCOs for those analytes, the concentrations were generally consistent through out the Site and are considered background concentrations. Additionally, these analyte concentrations are within background levels for the eastern United States as provided in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) for the Determination of Soil Cleanup Objective and Cleanup Levels (Proposed April 1995). Therefore these constituents were not addressed during further delineation of metals concentrations in soil at the Site.

Additional IRMs were conducted to remove metals-impacted soils detected at Surface Soil Samples D, E, and F and Borings B-17 and B-23. Prior to excavation, delineation soil samples were collected surrounding B-17 and B-23. While these samples were able to delineate the impacts from copper detected in B-17, the extent of mercury-impacts surrounding B-17 and chromium- and mercury-impacts surrounding B-23 had not been defined. Based on this information, the IRMs surrounding D, E, F, B-17 and B-23 focused on the removal of mercury and chromium impacts in the soil. The approximate locations of the delineation Soil Sample, the IRM excavations, and the end-point soil samples are shown on Figures 4-4, 4-5, and 4-6. Mercury was also detected in B-32 (former septic tank) at 5.3 mg/kg in a sample collected by the Nassau County Department of Health. This concentration of mercury was addressed during the IRM for PCBs found within the septic tank (see Section 4.2.1.1).

From April 28, 1998 to May 1, 1998, IRM excavations were conducted at B-17 and at B-23. Approximately 88 cubic yards of soil were removed during the excavation at B-17 which measured 17 feet wide by 35 feet long by 4 feet deep. At B-23, the

excavation was approximately 11 feet wide by 11 feet long by 10 feet deep resulting in removal of approximately 45 cubic yards of soil. On June 1, 2000, an IRM excavation was conducted surrounding Samples D, E, and F. The IRM excavation measured approximately 77 feet long by 12 feet wide by 3 feet deep equaling approximately 103 cubic yards of material.

The extent of the IRM excavations were determined using BioNebraska immunoassay field test kits for mercury. The BioNebraska immunoassay field test kits were used following the notification and approval of the NYSDEC case manager. The detection limit for the BioNebraska immunoassay field test kits is to 0.5 mg/kg which is above the NYSDEC RCO of 0.1 mg/kg. Therefore, the IRM excavations were continued until mercury was not detected by the immunoassay field test. Confirmatory end point soil samples were collected for laboratory analysis to determine if sufficient soil was removed and to demonstrate the effectiveness of the IRM for mercury in soils. Field immunoassay field test results are discussed in the Results section below.

Five confirmatory (end point) composite samples, the north, south, east, and west side walls and bottom, were collected from each of the excavations at B-17 and B-23. These samples were submitted for laboratory analysis of mercury. Chromium was also analyzed in the western sidewall sample of the excavation surrounding B-23 to address the chromium concentration detected in the delineation samples. Four end point composite samples from three sides and the bottom of the excavation around Samples D, E, and F were collected for analysis of PCBs and mercury. The east wall in the excavation surrounding Samples D, E, and F was the exposed foundation wall of Building II and therefore, no sample was collected. The soil samples were collected and analyzed in accordance with the QAPjP (Appendix E of the Work Plan). For safety reasons, the excavations were lined with plastic and backfilled to grade with clean soil pending the receipt of laboratory analytical results.

4.3 General Site Cleanup Activities

General site cleanup activities were performed to address potentially hazardous materials remaining at the Site as identified by ARCADIS Geraghty & Miller and the NYSDEC during two site walk throughs conducted in November 1995 and in August, 1997. This work was conducted under the direction of the NYSDEC Division of Solid/Hazardous materials and in accordance with the procedures detailed in the FSP (Appendix D of the Work Plan). The following potentially hazardous materials were addressed during the general site cleanup activities:

1. 10 to 20 containers, gallon size or less, labeled as various lubricating and motor oils, and empty drums and cans located in and around the wind tunnel and adjacent buildings.
2. The condition of aboveground oil and water storage tanks and their secondary contaminant structures.
3. Suspect asbestos containing material (ACM) identified during a site walk through with NYSDEC located in Shed VIII, and
4. Drums of soil and purge water generated during the previous investigations conducted at the Site.
5. Additional potentially hazardous materials containers identified during inspections of the building interiors.

The 10 to 20 containers, and the empty drums and cans observed in and around the wind tunnel were found to be empty or contain small residual volume of fluids. No visual staining or discharges associated with the drums and cans were observed in the area surrounding Shed III and the adjacent Buildings III and IV. The empty drums and cans stockpiled outside the southern wall of the wind tunnel were disposed of as scrap metal at Gershow located in Lindenhurst, New York. The aboveground oil and water storage tanks and vaults located at the south end of the Main Building were inspected as required under 6 NYCRR Part 613 (Petroleum Bulk Storage) and the tank systems were observed to be intact with no visible leaks. Suspected ACM stored in cans in Shed VIII were properly containerized by East End Environmental Services of Mastic, New York (License # AC-97-0350). ACM was transported by Astowa Trucking Co., Inc. of Yaphank, New York (Permit #1A-365), and disposed of at the Meadowfill Landfill in Bridgeport, West Virginia under (Permit #SWF-1032-92). Four of 55-Gallon drums of soil from previous investigations were determined to be likely non-hazardous based on the historical analytical data for soils (see Appendix A). However, the exact location and source of these soils could not be determined, and some of this soil may have originated from contaminated areas identified at the Site. Therefore, as a conservative measure, this soil was removed from the drums and disposed of with the stockpiled PCB-impacted soil. Historical groundwater quality data, provided in Appendix A, indicated that purged groundwater in 55-gallon drums was non-hazardous. Therefore, with prior consent of the Nassau County POTW, the purged groundwater was disposed of into the sanitary waste lines at the Site and the empty drums were disposed as scrap steel.

A site visit was conducted on August 6, 1997 to inspect the interior of the buildings on-site for the presence of floor drains, a photography lab, potentially hazardous materials, and supply wells. Buildings III and IV, which were locked and inaccessible during the November 1995 site inspection, were opened and searched. The Main Building basement, which was flooded in November 1995, was sampled and analyzed for TCL/TAL VOCs, SVOCs, PCBs and Metals to assess disposal options. Based on the sample results, Nassau County POTW granted permission to discharge the water from the basement into the on-site sanitary sewer. The analytical results of the basement water sample is provided in Table 4-3. The basement was pumped out from August 4 to August 6, 1997, when it was entered for inspection.

The inspection of the buildings at the Site identified the following issues and resultant activities:

- No floor drains were observed in the basement of the Main Building, instead, a large sump measuring approximately 30 inches wide by 30 inches long by 30 inches deep was discovered in a central area of the basement floor. Approximately two-thirds of the basement floor area was pitched to allow drainage into the sump. The remaining basement floor space was thoroughly inspected, but no additional structures (floor drains, cracks, or sumps) were observed.
- A small photography lab (dark room) measuring approximately 5 feet by 8 feet was found in the Main Building basement. The room was determined to probably have been a dark room based on the black painted walls, drying lines for film negatives, and a small sink. No photography equipment or chemicals were found in the room. An inspection of the exterior walls of the dark room indicated that the sink drain was connected to the sanitary waste lines within the Main Building.
- As previously discussed, former supply wells reported to be located in the Main Building basement could not be found. As a result, Mr. Donald Spiess from the Nassau County Department of Health who was familiar with the Site was interviewed. Mr. Spiess recalled that only one former supply well was present in the basement boiler room located in the southern end of the building. An inspection of the location found that the concrete floor had been patched indicating that the well had been previously abandoned.
- A crawl space was found beneath the entire first floor of Building II. A video inspection was conducted to determine if any containers, vessels, or tanks might

be present in the crawl space and to determine the direction and structure of drainage piping from a sump sink observed in Building II. The video inspection was conducted by opening a grid of access holes throughout the concrete floor of the Building II. A video camera mounted on a pole was then lowered into the crawl space and rotated to view the surrounding area. The entire crawl space was inspected revealing that no containers were present. The inspection also showed the sanitary waste drainage piping from the sump sink combined with the locker room drains flowed to the east toward the cesspool located south of the vacuum sphere.

- Potentially hazardous materials were discovered in the Main Building. The type and volumes of these materials is listed in Table 4-4. These materials were not observed to have leaked and were not removed from their containers. These containers were consolidated or over-packed in 55-gallon drums prior to off-site disposal.
- A single subsurface pipe was observed between GP-2 and SD-5. The pipe was snaked to confirm its routing, therefore, smoke testing, as proposed in the Work Plan, was not conducted. The slope of the piping indicated that the pipe acted as an overflow from GP-2 into SD-5. Due to the absence of PCB impacts in GP-2 and SD-5, additional sampling along the pipe was not conducted. Following the removal of GP-2 and confirmation of routing, the pipe between GP-2 and SD-5 was grouted closed. No other piping was found in association with either GP-1 or GP-2.

4.4 Waste Disposal

Waste generated during the IRMs at the Site and the general site cleanup activities were disposed at off-site facilities during three occasions; they were: 1) PCB-impacted soil disposal, 2) mercury-impacted soil disposal, and 3) general site cleanup waste disposal. Prior to transport and disposal, all wastes generated from the activities at the Site were either stockpiled on and covered with plastic sheeting or, for the general site cleanup wastes, placed in 55-gallon drums. The soil piles from IRM excavations were sampled for waste characterization and facility disposal parameters. Stockpiled soil was transported by Horwith Trucking of Northampton, Pennsylvania and disposed as landfill material at Wayne Disposal, a subsidiary of Environmental Quality (EQ), located in Bellville, Michigan. Drummed wastes were transported and disposed of by Advanced Environmental Technical Services (AETS) in Flanders, New Jersey.

The PCB-impacted soil required disposal at a Toxic Substance and Control Act (TSCA) permitted facility based on the waste characterization results. The analytical results for waste characterization and disposal parameters are provided in Table 4-5. PCB-impacted wastes were transported and disposed of in the TSCA-permitted landfill cell at the EQ facility. Although the soils removed during the IRMs for PAH-impacts were characterized as non-hazardous waste, they were combined and disposed of with the PCB-impacted soil at the TSC-permitted facility. A total of 172 tons of TSCA-Permitted Waste were disposed of at the EQ facility.

Mercury-impacted soils, which were characterized as non-hazardous waste, were disposed of as cover material at the Subtitle C landfill cell at the EQ facility in Bellville, Michigan. A total of 366 tons of non-hazardous mercury-impacted soil was removed from the Site. Copies of waste disposal manifests for the soils generated during IRMs and for drummed wastes generated from the general site cleanup activities at the Site are provided in Appendix F.

5.0 Results

The following section presents the results of soil and groundwater sample analyses collected during both the site investigation and IRM activities at the 425 Merrick Avenue site.

5.1 Soil Quality

This section provides a discussion of soil and groundwater laboratory analytical results from the site investigation soil and groundwater samples and the IRM end-point composite samples collected at the Site.

5.1.1 Site investigation

The laboratory reports for soil samples analyzed at the Site are provided in Appendix G. Laboratory analysis of soil samples detected concentrations of PCBs in four locations above the 10 ppm RCO for subsurface soils. Total PCBs were detected at 290 ppm in B-21, at 53 ppm in B-32, at 98 ppm in TP-VII S, and at 211 ppm in the bottom of the GP-1 excavation (Sample GP-1 BTM). Concentrations of PCBs above the 1 ppm RCO for surface soils were detected in seven samples. Those samples were B-12 at 2.89 ppm, A at 2.2 ppm, B at 3.7 ppm, C at 2.35 ppm, D at 4.0 ppm, E at 6.9 ppm, and F at 3.5 ppm. PCB results are provided in Table 5-1. These concentrations of PCBs were addressed through IRM excavations discussed in Section 4.2.1 (IRM for PCB Impacted Soil).

Concentrations of PAHs above NYSDEC RCOs were detected in 10 samples, B-12, B-13, B-16, B-17, B-23, B-24, B-27, B-28, B-32, and TP-VII BTM. Benzo(a)pyrene was detected above the RCO of 61 micrograms per kilogram (ug/kg) in nine samples ranging from 84 ug/kg in B-17 to 1,100 ug/kg in B-16. Benzo(b)fluoranthene and benzo(k)fluoranthene were both detected above the RCOs of 224 ug/kg (individually) in five samples ranging from 300 ug/kg and 230 ug/kg, respectively, in B-28 to 1,300 ug/kg and 1,100 ug/kg, respectively, in B-16. Benzo(a)anthracene and chrysene were both detected above their respective RCOs of 224 ug/kg and 400 ug/kg in three samples; B-12, B-13, and B-16. Benzo(a)anthracene was detected at 590 ug/kg in B-12, at 860 ug/kg in B-13, and at 1,200 ug/kg in B-16. Chrysene was detected at 620 ug/kg in B-12, at 790 ug/kg in B-13, and at 1,400 ug/kg in B-16. Dibenzo(a,h)anthracene was detected above the RCO of 14 ug/kg in B-13 at 50 ug/kg. Phenanthrene was detected at 97,000 ug/kg in B-32 above the RCO of 50,000 ug/kg. In addition to the PAHs discussed above, analytical results for TCL SVOCs detected only pentachlorophenol at 1,100 ug/kg in TP-VII S above the RCO of 1,000 ug/kg. This concentration of pentachlorophenol was removed during the excavation in the area of TP-VII S. PAH and TCL SVOC analytical results are provided in Table 5-2 and Table 5-3, respectively. The phenanthrene detected at 97,000 ug/kg in B-32 was removed during the IRM excavation of the former septic tank (see Section 4.2.1.1). The concentration of 1,2,4-trichlorobenzene at 11 mg/kg detected in B-22 (the southern septic field leaching ring) in a split sample analyzed by the NYSDEC was addressed during IRM Activities at the Site as discussed in Section 4.2.2 (IRM for PAH-Impacted Soils).

Petroleum related VOCs were not detected above NYSDEC RCOs in soil samples collected at the Site. Analytical results for the petroleum related VOCs are provided in Table 5-4. In addition, analysis of TCL VOCs detected no concentrations in exceedance of RCOs (see Table 5-5).

TAL metals analytical results detected four metals-barium, copper, mercury, and nickel, in exceedance of the NYSDEC RCOs in Sample TP-VII S. While beryllium, iron, and zinc were detected above the published RCOs for those analytes, the concentrations were generally consistent throughout the Site and are considered background concentrations. Additionally, these analyte concentrations are within background levels for the eastern United States as provided in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) for the Determination of Soil Cleanup Objective and Cleanup Levels (Proposed April 1995). Mercury was detected above the RCO of 0.1 mg/kg in eight additional samples, B-17 at 3.7 mg/kg, B-23 at 1.1 mg/kg, A at 0.39mg/kg, B at 2.7mg/kg, C at 0.35 mg/kg, D at 6.3 mg/kg, E at 7.8 mg/kg, and F at 9.7 mg/kg. Copper was detected in B-17 at 78.8 mg/kg in exceedance of the RCO. Additional delineation

samples surrounding B-17 and B-23 detected mercury and chromium at levels above the NYSDEC RCOs. Mercury was detected in eight of ten samples at concentrations ranging from 0.21 mg/kg in B-17 North to 102 mg/kg in B-23 East and chromium was detected in one sample at 199 mg/kg in B-23 West. Concentrations of the TAL metals are provided in Table 5-6. TAL metals at TP-VII S, B-17, B-23, A, B, C, D, E, and F, which were detected at concentrations above the RCOs, were addressed during IRM excavations as discussed under Section 4.2.3 (IRM for Metals-Impacted Soil). Post-IRM soil samples from these locations detected only mercury at concentrations slightly above the RCO of 0.1 mg/kg (see Table 5-10).

Additionally, the concentration of cadmium in the IRM waste characterization sample from Soil Pile SP-2/GP-2 at 36.7 mg/kg is likely from the IRM excavation at TP-VII. The TP-VII area was reported to be where waste was stored at the Site and cadmium was detected in TP-VII S. Therefore, the cadmium concentration in soil resulted from the historical waste disposal. Since the IRM at TP-VII removed all concentrations of cadmium and it was not detected in any other site investigation samples, no further investigation for this analyte was warranted.

Screening soil samples using a PID provided readings above background levels in four sample locations; 26.4 ppm in B-15, 31.2 ppm in B-22, 33.7 ppm in B-26, and 104 ppm in B-29. However, laboratory analysis of samples from the depth and locations of the elevated PID readings did not detect constituents above any RCOs. Sample B-29 from the bottom of Storm Drain SD-1, which yielded the highest PID reading, was collected to address a high TPH concentration in a previous sampling event. Analysis of petroleum-related VOCs in B-29 resulted in compound concentrations more than two orders of magnitude below the NYSDEC RCOs. In summary, the highest PID reading for the Site resulted in analytical results well below any RCOs. Therefore, the PID readings above background referenced above are representative of VOC concentrations well below regulatory concern.

5.1.2 IRMs

End-point soil samples collected following completion of the IRM for PCB-impacted soils in the area of TP-VII detected 2.1 mg/kg of PCBs in the bottom, 1.3 mg/kg of PCBs in the eastern sidewall, 0.1 mg/kg of PCBs in the northern sidewall, 0.02 mg/kg of PCBs in the western sidewall, and 0.06 mg/kg in the southern sidewall. The end-point samples collected from GP-1 detected 5.5 mg/kg of PCBs in the sidewalls of the excavation. The sample from the bottom of the excavation (approximately 12 feet below grade) detected 211 mg/kg of PCBs, which was at odds with the corresponding immunoassay field test kit result of 7 mg/kg. Further

investigation and laboratory analysis in this area detected only 1.9 mg/kg of PCBs at 14 to 16 feet below grade and 0.07 mg/kg of PCBs at 16 to 18 feet below grade. The gradual decrease of PCB concentrations in the immunoassay test at 12" and laboratory analysis of deeper samples is consistent with a typical decline of constituent concentration with increased depth in the sandy soils beneath the Site. The additional soil sample analyses beneath the bottom of the excavation, and field immunoassay test result indicate that the end-point sample result from the bottom of the GP-1 excavation was inaccurate. The endpoint composite soil samples from GP-2 detected 0.17 mg/kg of PCBs in both the bottom and sidewalls of the excavation. Additional IRMs at B-12 and B-21 detected PCBs in endpoint soil samples at 0.02 mg/kg in the composite sample at B-12, and at 0.14 mg/kg in the sidewalls and 0.39 mg/kg in the bottom of the excavation at B-21. End point sample results for IRMs for PCB impacted soils are provided in Table 5-7. Concentrations of PCBs in all end-point soil samples were below the NYSDEC RCO of 10.0 mg/kg of total PCBs in subsurface soils.

Analysis of NYSDEC split samples from TP-VII S and GP-1 BTM detected the pesticides endrin, 4,4'-DDT, methoxychlor, and delta-BHC. Endrin detected at 306 ug/kg in GP-1 BTM was the only pesticide detected above the respective RCO of 100 ug/kg.

End point soil samples collected following the continued IRM excavations at TP-VII and B-21 detected only aldrin at 2.1 ug/kg and 4,4'-DDT at 1.4 ug/kg in TP-VII SW. These pesticides concentrations are below the RCOs for the Site. Pesticides analytical results are provided in Table 5-8.

End point composite soil samples collected from the bottom of the septic system leaching field south of the vacuum sphere did not detect 1,2,4-trichlorobenzene above the method detection limit of 350 ug/kg. The results of the end point soil sample for the IRM to remove SVOC impacts in the leaching pool and Main Building septic tank (B-32) are provided in Table 5-9. The concentrations of SVOC's in the soils beneath the leaching ring and septic tank were below the NYSDEC RCOs.

With the exception of the south sidewall in the area of B-17, the laboratory results of end point soil samples collected during the IRM for mercury impacted soils surrounding B-17 and B-23 did not detect concentrations of mercury or chromium greater than the NYSDEC RCO of 0.1 mg/kg and 50 mg/kg, respectively. Analysis of B-17 South detected a concentration of mercury at 0.12 mg/kg which is slightly above the RCO. Mercury concentrations in end point samples surrounding Site Investigation surface soil samples A through F were detected above the RCO in six

samples at concentrations ranging from 0.11 mg/kg to 0.86 mg/kg. The end point sample beneath the former Main building septic tank had 0.014 mg/kg of mercury below the RCO. The laboratory analytical results for the IRM end point soil samples for mercury impacted soils are provided in Table 5-10. Based on the laboratory analytical results, the NYSDEC RCOs for mercury and chromium have essentially been achieved in all IRM locations.

5.2 Groundwater Quality

VOCs, SVOCs, and PCBs were not detected in groundwater samples above the USEPA Drinking Water Standards or the NYSDEC Ambient Water Quality Standards and Guidance Values. Groundwater analytical results are provided in Tables 5-11 through 5-14. While PCBs were detected in the first round of groundwater sampling, two subsequent rounds of groundwater samples did not detect PCBs in the groundwater beneath the Site. Concentrations of VOCs detected in groundwater samples included 1,1-dichloroethene at 2 ug/L in Well MW-3, and acetone at 6 ug/L, 4-methyl-2-pentanone at 4 ug/L, and toluene at 2 ug/L in N10115T. Four SVOC constituents were detected in groundwater samples which included phenol at 2 ug/L in N10115T; diethylphthalate at 0.5 ug/L in MW-3 and 0.8 ug/L in N10115T; di-n-butyl phthalate at 0.4 ug/L in MW-3, 0.6 ug/L in MW-1, and 4 ug/L in N10115T; and bis(2-ethylhexyl)phthalate at 51 ug/L in N10115T.

Total copper at 242 ug/L and manganese at 470 ug/L in N10115T were detected above the Ambient Water Quality Standards and Guidance Values of 200 ug/L and 300 ug/L, respectively. Concentrations of total iron in all four wells ranged from 406 ug/L in MW-3 to 49,800 ug/L in N10115T which were above the Ambient Water Quality Standards and Guidance Value of 300 ug/L. The standard for iron and manganese of 500 ug/L was exceeded in Wells MW-1 at 5,49.2 ug/L and N10115T at 50,270 ug/L. Iron at 3,230 ug/L in N10115T was the only dissolved metals analyte detected in groundwater samples above the Ambient Water Quality Standards and Guidance Values. Groundwater sampling analytical results for metals are provided in Tables 5-11, 5-12, 5-13, and 5-14.

5.3 Quality Assurance/Quality Control

Analytical results were reviewed for completeness and adherence to the analytical methodology. Groundwater results were fully validated according to New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP), October 1995. Validation of the organic data was performed following the quality assurance/quality control (QA/QC) criteria set forth in the NYSDEC ASP, October 1995; the United States Environmental Protection Agency

(USEPA) National Functional Guidelines for Organic Data Review, February 1993. Validation of the inorganic data was performed following the quality assurance/quality control (QA/QC) criteria set forth in the NYSDEC ASP, October 1995: the USEPA National Functional Guidelines for Inorganic Data Review, February 1994. Soil results were reviewed for compliance with holding times, blank results, and spike result. Results which were not in compliance with QA/QC protocols were qualified as estimated and flagged with a "J." Overall, the quality of the results were acceptable with only minor qualifications necessary.

5.4 Groundwater Flow

Water-level measurements collected in the three shallow water table wells indicate groundwater flow to be in a southerly direction. The hydraulic gradient of the water table is very flat at 0.00035 feet per foot. Water-level elevations and groundwater flow are depicted on Figure 5-1.

6.0 Findings And Conclusions

The following section presents the findings and conclusions drawn from the site investigation and IRMs at the Site. For clarity, these findings and conclusions are discussed under the general classifications presented under Section 3.0 (Areas of Concern).

6.1 Former Test Pits

No impacts were detected in soil samples collected at TP-I (B-27), TP-II (B-14), TP-III (B-15), TP-IV (B-16), and TP-V (B-20). PAHs were detected above the NYSDEC RCOs in TP-I (B-27) and TP-IV (B-16), however, a test pit and additional sampling at B-16 indicated the concentrations of PAHs corresponded with the former roadbed located between 0.5 and 2 feet bls. No further action is recommended at these locations.

PCB impacts were detected at TP-VI (B-21) at concentrations above the NYSDEC RCOs. An IRM conducted at this location removed approximately 7 cubic yards of soil. Analysis of end point soil samples indicate the NYSDEC RCOs were achieved. No further action is recommended at TP-VI.

Approximately 110 cubic yards of PCB-impacted soil in the area of TP-VII were removed as an IRM. Analysis of end point soil samples indicate the NYSDEC RCOs were achieved. Concentrations of metals and pesticides associated with the

PCB impacts were also remediated to below the RCOs. No further action is recommended at TP-VII.

VOCs, PAHs, and PCBs were not detected above the NYSDEC RCOs in TP-VIII (B-17) and TP-IX (B-23). However, concentrations of mercury, copper, and chromium were detected above the RCOs. A subsequent investigation adjacent to B-23 along the western side of Building II (Samples D, E, and F) also detected concentrations of mercury above the RCOs. IRMs conducted at TP-VIII, TP-IX, and west of Building II removed approximately 236 cubic yards of soil. Analysis of end point soil samples indicate the cleanup objectives were essentially achieved. No further action is recommended at TP-VIII (B-17), TP-IX (B-23), or west of Building II.

6.2 Grease Pits

An IRM removed a total of approximately 20 cubic yards of PCB-impacted sediments and GP-1 and GP-2. Analysis of end point soil samples indicate the NYSDEC RCOs were achieved. No further action is recommended at the former GP-1 and GP-2 locations.

6.3 Storm Drains

No impacts were detected in Storm Drains SD-1, SD-2, SD-4, and SD-5 above the NYSDEC RCOs. Concentrations of PAHs corresponding with the former roadbed located between 0.5 to 2 feet bbs through out the Site, were detected in SD-2 slightly above their respective RCOs. No further action is recommended for these storm drains.

An IRM removed approximately 1 cubic yard of PCB-impacted soil from SD-3. Analysis of an end point sample indicate the NYSDEC RCOs have been met. No further action is recommended for SD-3.

6.4 Septic Fields

No impacts were detected in the central-site and northern septic fields (Borings B-18, B-19, and B-31). An IRM in the southern septic field removed approximately 16 cubic yards of SVOC-impacted sediments from the cesspool and leaching ring. Analysis of an end point soil sample indicates the NYSDEC RCOs were achieved. An additional IRM removed the septic tank north of the Main Building and approximately 13 cubic yards of PCB-impacted sediments within the septic tank.

An end point soil sample indicates the RCOs were met. No further action is recommended in the septic fields.

6.5 Former Transformer/Power Stations

No impacts were detected in Soil Samples B-16, B-30, and TP-VII N collected in the areas of former transformer/power stations. No further action is recommended surrounding the former transformer/power stations.

6.6 Locations of High Levels of TPH

No impacts were detected in locations of high levels of TPH, which included TP-I (B-27), SD-1 (B-29), SD-2 (B-28), and B-2. No further action is recommended on these areas.

6.7 Northwest Portion of the Site

Concentrations of PAHs corresponding with the former roadbed located between 0.5 and 2 feet bls through out the Site (see Section 6.1) were detected in Soil samples B-12 and B-13 slightly above their respective RCOs. PCB impacts were detected in A, B, C, and B-12 above the NYSDEC RCO for surface soil. An IRM conducted at A, B, C, and B-12 removed approximately 58.5 cubic yards of PCB-impacted soil. Analysis of an end point soil sample indicates the NYSDEC RCO for PCBs was met. No further action is recommended in this portion of the Site.

6.8 Groundwater

No impacts were detected in groundwater samples from beneath the Site. Concentrations of iron detected throughout the Site are indicative of naturally occurring levels of iron in the groundwater.

6.9 General Site Cleanup

The grounds and all current structures at the Site have been thoroughly inspected. All potentially hazardous materials and empty containers identified during those inspections have been removed from the Site for proper disposal. No further action is recommended.

6.10 Project Summary

No further remediation is needed based on the results of the site investigation and the success of implemented IRMs to completely remove contamination detected at the Site. The following provides a summary of the findings drawn from the Site Investigation and IRM activities at the Site.

Area of Concern	Impacts Detected	Action Taken	Actions Recommended
TP-I	None	None required	No further action
TP-II	None	None required	No further action
TP-III	None	None required	No further action
TP-IV	PAHs	Test Pit Delineated PAHs in Former Roadbed.	No further action
TP-V	None	None required	No further action
TP-VI	PCBs	IRM removed PCBs to below RCOs.	No further action
TP-VII	PCBs & Metals	IRM removed PCBs and metals to below RCOs.	No further action
TP-VIII	Hg & Cu	IRM removed metals to below RCOs.	No further action
TP-IX	Hg & Cr	IRM removed metals to below RCOs.	No further action
West of Building II	PCBs & Hg	IRM removed PCBs & metals to RCOs	No further action
Grease Pit 1	PCBs	IRM removed PCBs to below RCOs.	No further action
Grease Pit 2	PCBs	IRM removed PCBs to below RCOs.	No further action
Storm Drain 1	None	None required	No further action
Storm Drain 2	PAHs	Identified in former roadbed, no action taken.	No further action

Area of Concern	Impacts Detected	Action Taken	Actions Recommended
Storm Drain 3	PCBs	IRM removed PCBs to below RCO.	No further action
Storm Drain 4	None	None required	No further action
Storm Drain 5	None	None required	No further action
Northern Septic Field	PCBs, PAHs, Hg	IRM at septic tank removed PCBs, PAHs, and Hg to below RCOs.	No further action
Central Septic Field	None	None required	No further action
Southern Septic Field	SVOCs	IRM removed SVOC's to below RCO.	No further action
Former Transformers	None	None required	No further action
Northwestern Portion of Site	PCBs	IRM removed PCBs to below RCOs.	No further action

6.11 Conclusion

The results of this site investigation and IRM program at the Site have shown that the Site is in compliance with the established NYSDEC soil and groundwater quality criteria. All soil impacts identified during this and previous investigations have been remediated to the published NYSDEC RCOs using IRMs. A soil quality evaluation stemming from SI/IRM program is provided in Table 6.1. No groundwater impacts were detected during the groundwater sampling program. An evaluation of groundwater quality is provided in Table 6.2. The general site cleanup activities have removed all potentially hazardous materials from the Site eliminating any additional potentially impacts. Therefore, on behalf of the PRP Group, ARCADIS Geraghty & Miller concludes that no further actions are required for the Site located at 425 Merrick Avenue in Westbury, New York.

The site investigation has demonstrated that an inconsequential, if any, quantity of hazardous waste may have been disposed at the Site. The investigation further confirmed that no significant threat to the environment or to human health is present

because environmental impacts were limited to isolated areas in the shallow soils above the water table and the affected soil has been removed. Because the impacts were limited to the unsaturated zone, the groundwater is not affected and therefore contaminants could not have migrated off-site nor affected groundwater use. For the reasons given above, on behalf of the PRP Group for the Site located at 425 Merrick Avenue, Westbury, New York, ARCADIS Geraghty & Miller requests that the Site be removed from the NYSDEC Registry of Inactive Hazardous Waste Sites.

7.0 References

- CA Rich Consultants, Inc. 1991. Waste Characterization and Preliminary Site Investigation. 425 Merrick Avenue, Westbury, New York. July 1991.
- Geraghty & Miller, Inc. 1996. Site Investigation and Interim Remedial Measure Work Plan for the 425 Merrick Avenue Site, Westbury, New York, NYSDEC Site ID #130061. March 1997.
- Geraghty & Miller, Inc. 1997. Preliminary Report for Interim Remedial Measures and Site Investigation Activities at the Site Located at 425 Merrick Avenue, Westbury, New York. October 1997.
- New York State Department of Environmental Conservation (NYSDEC). 1994. Technical and Administrative Guidance Memorandum (TAGM) on Determination of Soil Cleanup Objectives and Cleanup Levels. January 1994.
- U.S. Geological Survey. 1966. Geology and Hydrogeology of Northeastern Nassau County, Long Island, New York. U.S. Geological Survey Water-Supply Paper 1825, Isbister, J., 79 pp.
- U.S. Hydrogeologic, Inc. 1994. Correspondence from U.S. Hydrogeologic, Inc. to Barry Cohen of McMillian, Rather, Bennett, & Rigano, P.C. November 11, 1994.

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Table 2-1. Summary of Building Information for the Site Located at 425 Merrick Avenue Site, Westbury, New York.

Building Identification	Potential Occupants	Potential Uses
Main Building	All tenants	Main and second floors used for office space. Main floor and basement housed labs, machine shop(s), and aerodynamic test facility.
Building II	GASL	Office space, storage.
Building III	NYU/GASL	Sonic boom testing room, power station, control room, storage.
Building IV	NYU	Sonic boom testing, USEPA research for encapsulation methods.
Shed I (vacuum sphere)	None	Vacuum sphere used by GASL and NYU for aeronautic research, high pressure vacuum pumps and compressors.
Shed II	GASL	Compressors, storage.
Shed III	NYU	Fluidized bed combustion facility.
Shed IV	NYU	Coal storage.
Shed V	NYU/GASL	Sonic boom testing, storage.
Shed VI	Unknown	Storage; the building is no longer present.
Shed VII	NYU	Partially below-grade building; gun barrel testing/house burner experiment, oil burner control room.
Shed VIII	GASL	Location of pebble bed heater, and transformers to power the heater.
Shed IX	NYU	Shock/wind tunnel, storage
GASL NYU USEPA	General Applied Science Laboratories, Inc. New York University. United States Environmental Protection Agency.	

Table 4-1. Soil Sample Summary for Site Investigation and IRMs at the Site Located at 425 Merrick Avenue, Westbury, New York.

Sample Designation	Date Collected	Area of Concern	Depth (in feet below grade)	Parameter List	Analytical Method
Site Investigation					
B-2	7/31/97	High TPH	10 to 12	VOCs, PAHs	8021, 8270
B-12	7/31/97	Data Gap	0 to 2	PCBs, PAHs	8081, 8270
B-13	7/31/97	Data Gap	0 to 2	PCBs, PAHs	8081, 8270
B-14	7/30/97	Stained Soil (TP-II)	0 to 2	PCBs	8081
B-15	7/30/97	Stained Soil (TP-III)	0 to 2	PCBs	8081
B-16	7/31/97	Stained Soil (TP-IV), Transformers	0 to 2	PCBs	8081
B-16	7/31/97	Stained Soil (TP-IV), Transformers	0 to 2	TAL/TCL List	91-1, 91-2, 91-3, 91-4
B-16A	12/30/97	Previous Soil Sample Results	2 to 3	PAHs	8270
B-17	7/31/97	Stained Soil (TP-VIII)	0 to 2	PCBs	8081
B-17	7/31/97	Stained Soil (TP-VIII)	0 to 2	TAL/TCL List	91-1, 91-2, 91-3, 91-4
B-17 Endpoint	1/28/98	Vertical Delineation	3 to 4	Hg & Cu	7471 & 6010
B-17 North	1/28/98	Horizontal Delineation	0 to 2	Hg & Cu	7471 & 6010
B-17 East	1/28/98	Horizontal Delineation	0 to 2	Hg & Cu	7471 & 6010
B-17 South	1/28/98	Horizontal Delineation	0 to 2	Hg & Cu	7471 & 6010

Table 4-1. Soil Sample Summary for Site Investigation and IRMs at the Site Located at 425 Merrick Avenue, Westbury, New York.

Sample Designation	Date Collected	Area of Concern	Depth (in feet below grade)	Parameter List	Analytical Method
Site Investigation (cont.)					
B-17 West	1/28/98	Horizontal Delineation	0 to 2	Hg & Cu	7471 & 6010
B-18	7/30/97	Septic Field	5 to 7	PCBs, PAHs	8081, 8270
B-19	7/30/97	Septic Field	4 to 6	PCBs, PAHs	8081, 8270
B-20	7/30/97	Stained Soil (TP-V)	0 to 2	PCBs	8081
B-21	7/31/97	Stained Soil (TP-VI)	2 to 4	PCBs	8081
B-21	7/31/97	Stained Soil (TP-VI)	0 to 2	TAL/TCL List	91-1, 91-2, 91-3, 91-4
B-22	7/31/97	Leaching Ring	9 to 10	PCBs, PAHs	8081, 8270
B-23	7/31/97	Stained Soil (TP-IX)	0 to 2	PCBs	8081
B-23	7/31/97	Stained Soil (TP-IX)	0 to 2	TAL/TCL List	91-1, 91-2, 91-3, 91-4
B-23 Endpoint	1/28/98	Vertical Delineation	3 to 4	Hg & Cr	7471 & 6010
B-23 North	1/28/98	Horizontal Delineation	0 to 2	Hg & Cr	7471 & 6010
B-23 East	1/28/98	Horizontal Delineation	0 to 2	Hg & Cr	7471 & 6010
B-23 South	1/28/98	Horizontal Delineation	0 to 2	Hg & Cr	7471 & 6010
B-23 West	1/28/98	Horizontal Delineation	0 to 2	Hg & Cr	7471 & 6010

Table 4-1. Soil Sample Summary for Site Investigation and IRMs at the Site Located at 425 Merrick Avenue, Westbury, New York.

Sample Designation	Date Collected	Area of Concern	Depth (in feet below grade)	Parameter List	Analytical Method
Site Investigation (cont.)					
B-25	8/1/97	Storm Drain 4	0 to 2	PCBs, PAHs	8081, 8270
B-26	8/1/97	Storm Drain 5	5 to 7	PCBs, PAHs	8081, 8270
B-27	7/30/97	Stained Soil (TP-I), High TPH	0 to 2	VOCs, PAHs	8021, 8270
B-28	7/30/97	Storm Drain 2, High TPH	10 to 12	VOCs, PAHs	8021, 8270
B-29	8/1/97	Storm Drain 1, High TPH	2 to 4	PCBs, VOCs	8081, 8021
B-30	7/30/97	Transformers	0 to 2	PCBs	8081
B-31	8/1/97	Catch Basin	10 to 12	PCBs, PAHs	8081, 8270
Cesspool Soil	7/30/97	Southern Septic Field	8	PCBs, VOCs, PAHs	8081, 8021, 8270
Cesspool Liquid	7/30/97	Southern Septic Field	8	PCBs, VOCs, PAHs	8081, 8021, 8270
IRM Samples					
TP-VII N	7/29/97	Test Pit VII, Transformers	3	PCBs, VOCs, PAHs	8081, 8021, 8270
TP-VII E	7/30/97	Test Pit VII	3	PCBs, VOCs	8081, 8021
TP-VII S	7/30/97	Test Pit VII	3	PCBs, VOCs, PAHs	8081, 8021, 8270
TP-VII S	7/30/97	Test Pit VII	3	TAL/TCL List	91-1, 91-2, 91-3, 91-4

Table 4-1. Soil Sample Summary for Site Investigation and IRMs at the Site Located at 425 Merrick Avenue, Westbury, New York.

Sample Designation	Date Collected	Area of Concern	Depth (in feet below grade)	Parameter List	Analytical Method
IRM Samples (cont.)					
TP-VII SW	12/30/97	Test Pit VII (final south wall end point)	3	TAL Metals, PCBs, Pesticides	95-3, 95-4
TP-VII W	7/29/97	Test Pit VII	3	PCBs, VOCs, PAHs	8081, 8021, 8270
TP-VII BTM	7/29/97	Test Pit VII	4 to 6	PCBs, VOCs, PAHs	8081, 8021, 8270
GP-1	7/29/97	Grease Pit 1	5 to 12	PCBs, VOCs, PAHs	8081, 8021, 8270
GP-1 BTM	7/29/97	Grease Pit 1	12	PCBs, VOCs, PAHs	8081, 8021, 8270
GP-1 SIDE	7/29/97	Grease Pit 1	5	PCBs, VOCs, PAHs	8081, 8021, 8270
GP-2	7/25/97	Grease Pit 2	4 to 8	PCBs, VOCs, PAHs	8081, 8021, 8270
B-12	12/30/97	PCBs in Surface Soil	2 to 3	PCBs	8081
B-21 BOT	12/30/97	Test Pit -VI	3	PCBs, Pesticides	8081
B-21 SIDE	12/30/97	Test Pit -VI	2	PCBs, Pesticides	8081
B-24	7/30/97	Storm Drain 3	4 to 5	PCBs, VOCs, PAHs	8081, 8021, 8270
Cesspool	1/2/98	Southern Septic Field	11	SVOCs	95-2

Table 4-2. Water-Level Measurements from Monitoring Wells at the Site Located at 425 Merrick Avenue, Westbury, New York.

Well Designation:	Date:	Measuring Point Elevation: (ft above msl)	Depth to Water: (ft below MP)	Water-Level Elevation: (ft above msl)
MW-1	12/19/97	78.64	22.52	56.12
	1/13/98		21.92	56.72
	2/27/98		20.61	58.03
	3/12/98		20.14	58.50
	5/13/98		18.81	59.83
MW-2	12/19/97	76.25	20.33	55.92
	1/13/98		19.81	56.44
	2/27/98		18.37	57.88
	3/12/98		17.90	58.35
	5/13/98		16.53	59.72
MW-3	12/19/97	75.83	19.91	55.92
	1/13/98		19.29	56.54
	2/27/98		17.86	57.97
	3/12/98		17.38	58.45
	5/13/98		16.05	59.78
N-10115T	12/19/97	76.49	--	--
	1/13/98		21.71	54.78
	2/27/98		20.89	55.60
	3/12/98		19.93	56.56
	5/13/98		18.51	57.98

ft above msl

feet above mean sea level.

ft below MP

feet below measuring point.

--

Not Measured.

Table 4-3. Basement Water Disposal Analysis, 425 Merrick Avenue, Westbury, New York.

Volatile Organic	Result (in ug/L)
Parameter	
Acetone	<10.0
Benzene	<5.0
Bromodichloromethane	<5.0
Bromoform	<5.0
Bromomethane	<10.0
2-Butanone	<10.0
Carbon Disulfide	<5.0
Carbon Tetrachloride	<5.0
Chlorobenzene	<5.0
Chlorodibromomethane	<5.0
Chloroethane	<10.0
Chloroform	<5.0
Chloromethane	<10.0
1,1-Dichloroethane	<5.0
1,2-Dichloroethane	<5.0
1,1-Dichloroethene	<5.0
1,2-Dichloroethene (Total)	<5.0
1,2-Dichloropropane	<5.0
Cis-1,3-Dichloropropene	<5.0
Trans-1,3-Dichloropropene	<5.0
Ethylbenzene	<5.0
2-Hexanone	<10.0
4-Methyl-2-Pentanone	<10.0
Methylene Chloride	<5.0
Styrene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Tetrachloroethene	<5.0
Toluene	<5.0
1,1,1-Trichloroethane	<5.0
1,1,2-Trichloroethane	<5.0
Trichloroethene	<5.0
Vinyl Chloride	<10.0
Xylene (Total)	<5.0

Table 4-3. Basement Water Disposal Analysis, 425 Merrick Avenue, Westbury, New York.

Semivolatile Organic	Result (in ug/L)
Acenaphthene	<10.0
Acenaphthylene	<10.0
Anthracene	<10.0
Benzo(a)Anthracene	<10.0
Benzo(b)Fluoranthene	<10.0
Benzo(k)Fluoranthene	<10.0
Benzo(g,h,i)Perylene	<10.0
Benzo(a)Pyrene	<10.0
Chrysene	<10.0
Dibenz(a,h,)Anthracene	<10.0
Fluoranthene	<10.0
Fluorene	<10.0
Indeno(1,2,3-cd)Pyrene	<10.0
Naphthalene	<10.0
Phenanthrene	<10.0
Pyrene	<10.0
PCBs	
Aroclor-1016	<1.0
Aroclor-1221	<1.0
Aroclor-1232	<1.0
Aroclor-1242	<1.0
Aroclor-1248	1.4
Aroclor-1254	<1.0
Aroclor-1260	0.50
TCLP Metals	
Arsenic	<40.00
Barium	27.7 B
Cadmium	<5.0
Chromium	6.9 B
Lead	39.4 B
Mercury	<0.200
Selenium	<48.0
Silver	<2.0

ug/L - micrograms per liter.

B - Detected between Instrument Detection Limit and the Contract Required Detection Limit.

Table 4-4. Potentially Hazardous Materials Disposal Summary, 425 Merrick Avenue, Westbury, New York.

Waste:	Container Type:	Disposal Volume:
Capacitors	3 units	400 pounds
Liquid Mercury	2 vessels	160 pounds
Waste Oil	1 drum	150 pounds
Empty Drums and Containers	40 to 50 units	1 x 30 yd ³ container
Dry Cell Batteries and Beryllium	5 to 7 batteries 1 jar beryllium	5 pounds
Aerosol Paint Cans	12 to 15 cans	10 pounds
Paints, Resins, Roofing Tar	25 to 30 cans	400 pounds
Magnesium Chloride Hexhydrate	6 cans	35 pounds
Carbon Dioxide Fire Extinguisher	1 can	20 pounds

Table 4-5. Waste Characterization and Disposal Parameters for Impacted Soils Removed from the Site Located at 425 Merrick Avenue, Westbury, New York.

	Sample ID: Sample Date:	SP-2/GP-2 8/14/97	SP-1 8/14/97	SP-2 8/14/97	GP-2 8/14/97	B-23 COMP 4/3/98	HG PILE 6/4/98	Disposal Soil Pile 3 6/2/00
Parameters:								
<u>TCLP Volatile Organic Compounds in ug/L</u>								
Benzene		0.3 J	--	--	--	--	--	<5.75
Carbon tetrachloride		<5	--	--	--	--	--	<5.75
Chlorobenzene		<5	--	--	--	--	--	<5.75
Chloroform		<5	--	--	--	--	--	<5.75
2-Butanone		<10	--	--	--	--	--	<11.5
Tetrachloroethene		<5	--	--	--	--	--	<5.75
Trichloroethene		<5	--	--	--	--	--	<5.75
Vinyl chloride		<10	--	--	--	--	--	<11.5
1,2-Dichloroethane		<5	--	--	--	--	--	<5.75
1,1-Dichloroethene		<5	--	--	--	--	--	<5.75
<u>TCLP Semi-Volatile Organic Compounds in ug/L</u>								
1,4-Dichlorobenzene		<20	--	--	--	--	--	--
Hexachloroethane		<20	--	--	--	--	--	--
Nitrobenzene		<20	--	--	--	--	--	--
Hexachlorobutadiene		<20	--	--	--	--	--	--
2,4,6-Trichlorophenol		<20	--	--	--	--	--	--
2,4,5-Trichlorophenol		<100	--	--	--	--	--	--
2,4-Dinitrotoluene		<20	--	--	--	--	--	--
Hexachlorobenzene		<20	--	--	--	--	--	--
Pentachlorophenol		<100	--	--	--	--	--	--
2-Methylphenol		<20	--	--	--	--	--	--
4-Methylphenol		<20	--	--	--	--	--	--
Pyridine		<20	--	--	--	--	--	--
<u>Polychlorinated Biphenyls in ug/kg</u>								
Aroclor-1016		--	<7095	<710	<693	--	--	<373
Aroclor-1221		--	<14405	<1441	<1407	--	--	<757
Aroclor-1232		--	<7095	<710	<693	--	--	<373
Aroclor-1242		--	<7095	1700	<693	--	--	<373
Aroclor-1248		--	43000	<710	2600	--	--	<373
Aroclor-1254		--	44000	3200	4400	--	--	1600
Aroclor-1260		--	<7095	<710	<693	--	--	310 J
<u>TCLP Pesticides in ug/L</u>								
Technical Chlordane		<1	--	--	--	--	--	--
Toxaphene		<5	--	--	--	--	--	--
Endrin		<0.5	--	--	--	--	--	--
Heptachlor		<0.25	--	--	--	--	--	--
Heptachlor Epoxide		<0.25	--	--	--	--	--	--
gamma-BHC (Lindane)		<0.25	--	--	--	--	--	--
Methoxychlor		<2.5	--	--	--	--	--	--

See footnotes on next page.

Table 4-5. Waste Characterization and Disposal Parameters for Impacted Soils Removed from the Site Located at 425 Merrick Avenue, Westbury, New York.

	Sample ID: Sample Date:	SP-2/GP-2 8/14/97	SP-1 8/14/97	SP-2 8/14/97	GP-2 8/14/97	B-23 COMP 4/3/98	HG PILE 6/4/98	Disposal Soil Pile 3 6/2/00
Parameters:								
<u>TCLP Herbicides in ug/L</u>								
2,4-D		<2.5	--	--	--	--	--	--
Silvex		<0.25	--	--	--	--	--	--
<u>TCLP Metals in ug/L</u>								
Aluminum		--	--	--	--	--	596 B	--
Antimony		--	--	--	--	--	<40	--
Arsenic		<300	--	--	--	--	<20	12.1
Barium		879	--	--	--	--	269 B	1190
Beryllium		--	--	--	--	--	<10	--
Cadmium		36.7	--	--	--	--	<10	8.1
Calcium		--	--	--	--	--	35000 B	--
Chromium		<10	--	--	--	--	<10	4.7 B
Cobalt		--	--	--	--	--	<10	--
Copper		--	--	--	--	--	56.5 B	58.4
Iron		--	--	--	--	--	<120	--
Lead		<100	--	--	--	--	290	2340
Magnesium		--	--	--	--	--	2780 B	--
Manganese		--	--	--	--	--	281	--
Mercury		<2	--	--	--	15	<0.20	<1.0
Nickel		--	--	--	--	--	<20	13 B
Potassium		--	--	--	--	--	1630 B	--
Selenium		<500	--	--	--	--	29.8 B	12.6
Silver		<10	--	--	--	--	<10	0.87 B
Sodium		--	--	--	--	--	1220000 J	--
Thallium		--	--	--	--	--	34.8 B	--
Vanadium		--	--	--	--	--	<10	--
Zinc		--	--	--	--	--	577	1390
<u>Wet Chemistry in mg/kg</u>								
Corrosivity		ND	--	--	--	--	--	--
Cyanide-R		<5	--	--	--	--	--	--
HC-IR		2650	--	--	--	--	--	--
Ignightability		ND	--	--	--	--	--	--
Reactivity		ND	--	--	--	--	--	--
Sulfide-R		<10	--	--	--	--	--	--

ug/L Micrograms per liter.
mg/kg Milligrams per kilograms.
J Estimated concentration.
B Detected between the IDL and CRDL.
iDL Instrument detection limit.
CRDL Contract requested detection limit.
-- Not analyzed.
ND Not detected.

Table 5-1. Concentrations of Polychlorinated Biphenols in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:		NYSDEC Recommended Soil Cleanup Objectives* (in ug/kg)									
Site Investigation		Sample ID:	B-12	B-13	B-14	B-15	B-16	B-17	B-18	B-19	B-20
Sample Date:		7/31/97	7/31/97	7/31/97	7/30/97	7/30/97	7/31/97	7/31/97	7/30/97	7/30/97	7/30/97
Sample Depth(1):		0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	5-7 ft	4-6 ft	0-2 ft
Units:		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor-1016		NA	< 1940	< 180	< 37	< 183	< 35	< 36	< 38	< 36	< 37
Aroclor-1221		NA	< 3940	< 365	< 74	< 373	< 70	< 72	< 77	< 72	< 75
Aroclor-1232		NA	< 1940	< 180	< 37	< 183	< 35	< 36	< 38	< 36	< 37
Aroclor-1242		NA	< 1940	< 180	< 37	< 183	< 35	< 36	< 38	< 36	< 37
Aroclor-1248		NA	< 1940	< 180	< 37	< 183	8.8 J	< 36	< 38	< 36	< 37
Aroclor-1254		NA	2100	280	140	240	52	230	< 38	20 J	190
Aroclor-1260		NA	790 J	160 J	68 J	90 J	< 35	< 36	< 38	< 36	71
Total PCBs:	Surface	1000	2890	440	208	330	60.8	230	NA	NA	261
	Subsurface	10000	NA	NA	NA	NA	NA	NA	NA	20	NA

(1) Sample depth provided in feet below land surface.

ug/L Micrograms per liter.

ug/kg Micrograms per kilogram.

J Estimated concentration.

R Unusable value.

NYSDEC New York State Department of Environmental Conservation.

, NYSDC Division Technical and Administrative Guidance Memorandum:

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

NA Not Applicable.

Table 5-1 Concentrations of Polychlorinated Biphenols in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Site Investigation Sample ID:		B-21	B-22	B-23	B-25	B-26	B-29	B-30	B-31	B-32
Sample Date:		7/31/97	7/31/97	7/31/97	8/1/97	8/1/97	8/1/97	7/30/97	8/1/97	6/2/00
Sample Depth(1):		2-4 ft	9-10 ft	0-2 ft	0-2 ft	5-7 ft	2-4 ft	0-2 ft	10-12 ft	8 ft
Units:		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameters:										
NYSDEC										
Recommended Soil										
Cleanup										
Objectives*										
(in ug/kg)										
Aroclor-1016		NA	< 406	< 178	< 36	< 35	< 3830	< 370	< 37	< 9370
Aroclor-1221		NA	< 825	< 360	< 72	< 70	< 7770	< 750	< 75	< 19030
Aroclor-1232		NA	< 406	< 178	< 36	< 35	< 3830	< 370	< 37	< 9370
Aroclor-1242		NA	< 406	< 178	< 36	< 35	< 3830	< 370	< 37	< 9370
Aroclor-1248		NA	170,000	390 J	24 J	35	3500 J	< 370	< 37	24000
Aroclor-1254		NA	120,000	980	41	35	5700	940	25 J	29000
Aroclor-1260		NA	< 34980	280 J	< 36	< 35	< 3830	< 370	< 37	< 9370
Total PCBs:	Surface	1000	NA	360	65	NA	NA	940	NA	NA
	Subsurface	10000	1650	NA	NA	NA	9200	NA	25	53000

(1) Sample depth provided in feet below land surface.

ug/L Micrograms per liter.

ug/kg Micrograms per kilogram.

J Estimated concentration.

R Unusable value.

NYSDEC New York State Department of Environmental Conservation.

NYSDEC Division Technical and Administrative Guidance Memorandum:

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

NA Not Applicable.

Table 5-1. Concentrations of Polychlorinated Biphenols in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Site Investigation			Cesspool					Cesspool		
	Sample ID:	Sample Date:	Sample Depth(1):	Units:	A	B	C	D	E	F	Liquid
					11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	7/30/97
					0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	8 ft
					ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L

(1) Sample depth provided in feet below land surface.

ug/L Micrograms per liter.

ug/kg Micrograms per kilogram.

J Estimated concentration.

R Unusable value.

NYSDEC New York State Department of Environmental Conservation.

NYSDEC Division Technical and Administrative Guidance Memorandum:

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

NA Not Applicable.

Table 5-1. Concentrations of Polychlorinated Biphenols in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

	Field Blanks					
	FB 072597	FB 072997	FB 073097	FB 073197	FB 080197	Field Blank
Site Investigation Sample ID:	7/25/97	7/29/97	7/30/97	7/31/97	8/1/97	11/12/99
Sample Date:	NA	NA	NA	NA	NA	NA
Sample Depth(1):	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameters:						
<u>NYSDEC</u> <u>Recommended Soil</u> <u>Cleanup</u> <u>Objectives*</u> (in ug/kg)						
Aroclor-1016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aroclor-1221	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aroclor-1232	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aroclor-1242	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aroclor-1248	< 1.0	< 1.0	< 1.0	0.12 J	< 1.0	< 1.0
Aroclor-1254	< 1.0	< 1.0	0.11 J	0.082 J	< 1.0	< 1.0
Aroclor-1260	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total PCBs:	Surface	NA	0.11	0.202	NA	NA
	Subsurface	NA	NA	NA	NA	NA

(1) Sample depth provided in feet below land surface.

ug/L Micrograms per liter.

ug/kg Micrograms per kilogram.

J Estimated concentration.

R Unusable value.

NYSDEC New York State Department of Environmental Conservation.

* NYSDEC Division Technical and Administrative Guidance Memorandum:

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

NA Not Applicable.

Table 5-2. Concentrations of Polynuclear Aromatic Hydrocarbons in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Site Investigation Sample ID:									
Parameter	Sample Date:		B-2	B-12	B-13	B-16	B-16A	B-18	B-19
	Sample Depth (1):		7/31/97	7/31/97	7/31/97	7/31/97	12/30/97	7/30/97	7/30/97
	Units:		10-12 ft	0-2 ft	0-2 ft	0-2 ft	2-3 ft	5-7 ft	4-6 ft
		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
NYSDEC									
Recommended									
Soil Cleanup									
Objectives:									
		(in ug/kg)							
Naphthalene	13000	< 366	71 J	50 J	15 J	< 350	< 376	< 356	
2-Methylnaphthalene	364000	< 366	389 J	360 J	350	< 350	< 376	< 356	
Acenaphthylene	41000	< 366	59 J	360 J	12 J	< 350	< 376	< 356	
Acenaphthene	50000	< 366	48 J	150 J	130 J	< 350	< 376	< 356	
Fluorene	50000	< 366	54 J	120 J	160 J	< 350	< 376	< 356	
Phenanthrene	50000	< 366	690 J	1300 J	1600 J	72 J	< 376	28 J	
Anthracene	50000	< 366	220 J	290 J	340 J	18 J	< 376	6 J	
Fluoranthene	50000	< 366	1300 J	1700 J	2400 J	140 J	< 376	68 J	
Pyrene	50000	< 366	1200 J	1500 J	1200 J	140 J	< 376	74 J	
Benzo(a)anthracene	224	< 366	590 J	860 J	1200 J	67 J	< 376	37 J	
Chrysene	400	< 366	620 J	790 J	1400 J	72 J	< 376	45 J	
Benzo(b)fluoranthene	224	< 366	850 J	1100 J	1300 J	67 J	< 376	37 J	
Benzo(k)fluoranthene	224	< 366	650 J	770 J	1100 J	56 J	< 376	42 J	
Benzo(a)pyrene	61	< 366	520 J	720 J	1100 J	67 J	< 376	42 J	
Indeno (1,2,3-cd)pyrene	3200	< 366	82 J	130 J	280 J	45 J	< 376	34 J	
Dibenzo(a,h)anthracene	14	< 366	389 J	50 J	350	< 350	< 376	< 356	
Benzo(g,h,i)perylene	50000	< 366	73 J	96 J	78 J	52 J	< 376	42 J	

(1) Sample depth is provided in feet below land surface.

ug/kg Micrograms per Kilogram

ug/L Micrograms per liter

J Estimated concentration.

NYSDEC New York State Department of Environmental Conservation.

NYSDOE Division Technical and Administrative Guidance Memorandum.

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 5-2. Concentrations of Polynuclear Aromatic Hydrocarbons in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameter	Site Investigation Sample ID:		Cesspool				
	B-32 Sample Date Sample Depth (1): Units	TP-VII BTM 7/29/97 4-6 ft ug/kg	TP-VII N 7/29/97 3 ft ug/kg	TP-VII W 7/29/97 3 ft ug/kg	Liquid 7/30/97 8 ft ug/L	Soil 7/30/97 8 ft ug/kg	GP-1 (Comp) 7/29/97 5-12 ft ug/kg
NYSDEC Recommended Soil Cleanup Objectives*							
		(in ug/kg)					
Naphthalene	13000	J	< 396 J	< 403 J	< 400	8500 J	< 350
2-Methylnaphthalene	364000	J	< 396 J	< 403 J	< 400	9800 J	< 350
Acenaphthylene	41000	< 26400	< 396 J	< 403 J	< 400	< 5874 J	< 350
Acenaphthene	50000	< 26400	< 396 J	< 403 J	< 400	< 5874 J	< 350
Fluorene	50000	< 26400	< 396 J	< 403 J	< 400	< 5874 J	< 350
Phenanthrene	50000	97000	230 J	< 403 J	< 400	< 5874 J	< 350
Anthracene	50000	< 26400	64 J	< 403 J	< 400	16000 J	< 350
Fluoranthene	50000	< 26400	370 J	< 403 J	< 400	< 5874 J	< 350
Pyrene	50000	< 26400	510 J	< 403 J	< 400	390 J	< 350
Benzofluoranthene	224	< 26400	190 J	< 403 J	< 400	< 5874 J	< 350
Chrysene	400	< 26400	160 J	< 403 J	< 400	< 5874 J	< 350
Benzobifluoranthene	224	< 26400	180 J	< 403 J	< 400	< 5874 J	< 350
Benzokifluoranthene	224	< 26400	130 J	< 403 J	< 400	< 5874 J	< 350
Benzo(a)pyrene	61	< 26400	160 J	< 403 J	< 400	< 5874 J	< 350
Indeno (1,2,3-cd)pyrene	3200	< 26400	< 396 J	< 403 J	< 400	< 5874 J	< 350
Dibenzofluoranthene	14	< 26400	< 396 J	< 403 J	< 400	< 5874 J	< 350
Benzofluoranthene	50000	< 26400	< 396 J	< 403 J	< 400	< 5874 J	< 350

(1) Sample depth is provided in feet below land surface.

Micrograms per kilogram
ug/kgMicrograms per liter. $\mu\text{g/L}$

Estimated concentration.

 $\hat{z}$

New York State Department of Environmental Conservation

NYSDEC Division Technical and Administrative Guidance Memorandum:

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995)

Table 5-2. Concentrations of Polynuclear Aromatic Hydrocarbons in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameter	Site Investigation		Field Blanks			
	Sample ID:	GP-2	FB 072597	FB 072997	FB 080197	
	Sample Date:	7/25/97	7/25/97	7/29/97	8/1/97	
	Units:	4-8 ft	NA	NA	NA	
		ug/kg	ug/L	ug/L	ug/L	
NYSDEC						
Recommended						
Soil Cleanup						
Objectives:						
	(in ug/kg)					
Naphthalene	13000	< 360	< 11.8	< 10	< 10	< 10
2-Methylnaphthalene	364000	< 360	< 11.8	< 10	< 10	< 10
Acenaphthylene	41000	< 360	< 11.8	< 10	< 10	< 10
Acenaphthene	50000	< 360	< 11.8	< 10	< 10	< 10
Fluorene	50000	< 360	< 11.8	< 10	< 10	< 10
Phenanthrene	50000	< 360	< 11.8	< 10	< 10	< 10
Anthracene	50000	< 360	< 11.8	< 10	< 10	< 10
Fluoranthene	50000	< 360	< 11.8	< 10	< 10	< 10
Pyrene	50000	< 360	< 11.8	< 10	< 10	< 10
Benzo(a)anthracene	224	< 360	< 11.8	< 10	< 10	< 10
Chrysene	400	< 360	< 11.8	< 10	< 10	< 10
Benzo(b)fluoranthene	224	< 360	< 11.8	< 10	< 10	< 10
Benzo(k)fluoranthene	224	< 360	< 11.8	< 10	< 10	< 10
Benzo(a)pyrene	61	< 360	< 11.8	< 10	< 10	< 10
Indeno (1,2,3-cd)pyrene	3200	< 360	< 11.8	< 10	< 10	< 10
Dibenz(a,h)anthracene	14	< 360	< 11.8	< 10	< 10	< 10
Benzo(g,h,i)perylene	50000	< 360	< 11.8	< 10	< 10	< 10

(1) Sample depth is provided in feet below land surface.

ug/kg Micrograms per kilogram.

ug/L Micrograms per liter.

J Estimated concentration.

NYSDEC New York State Department of Environmental Conservation.

• NYSDEC Division Technical and Administrative Guidance Memorandum:

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 5-3. Concentrations of Target Compound List Semi-Volatile Organic Compounds in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Site Investigation Sample ID:	B-16	B-17	B-21	B-23	TP-VII S	Field Blanks	
						FB 073097	FB 073197
Sample Date:	7/30/97	7/31/97	7/31/97	7/30/97	7/30/97	7/30/97	7/31/97
Sample depth (1):	0-2 ft	0-2 ft	0-2 ft	0-2 ft	3 ft	NA	NA
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L	ug/L
Parameters:							
<u>NYSDEC</u> <u>Recommended Soil</u> <u>Cleanup</u> <u>Objectives*</u> <u>(in ug/kg)</u>							
Phenol	30	< 350	< 350	< 350	< 360	< 360	< 10
bis(2-Chloroethyl)ether	--	< 350	< 350	< 350	< 360	< 360	< 10
2-Chlorophenol	800	< 350	< 350	< 350	< 360	< 360	< 10
1,3-Dichlorobenzene	1600	< 350	< 350	< 350	< 360	< 360	< 10
1,4-Dichlorobenzene	8500	< 350	< 350	< 350	< 360	< 360	< 10
1,2-Dichlorobenzene	7900	< 350	< 350	< 350	< 360	< 360	< 10
2-Methylphenol	100	< 350	< 350	< 350	< 360	< 360	< 10
2,2'-oxybis(1-Chloropropane)	--	< 350	< 350	< 350	< 360	< 360	< 10
4-Methylphenol	900	< 350	< 350	< 350	< 360	< 360	< 10
N-Nitroso-di-n-propylamine	--	< 350	< 350	< 350	< 360	< 360	< 10
Hexachloroethane	--	< 350	< 350	< 350	< 360	< 360	< 10
Nitrobenzene	200	< 350	< 350	< 350	< 360	< 360	< 10
Chlorobenzene	4400	< 350	< 350	< 350	< 360	< 360	< 10
o-Cresol	330	< 350	< 350	< 350	< 360	< 360	< 10
2,4-Dimethylphenol	--	< 350	< 350	< 350	< 360	< 360	< 10
bis(2-Chloroethoxy)methane	--	< 350	< 350	< 350	< 360	< 360	< 10
2,4-Dichlorophenol	400	< 350	< 350	< 350	< 360	< 360	< 10
1,2,4-Trichlorobenzene	3400	< 350	< 350	< 350	< 360	< 360	< 10
Naphthalene	13000	15 J	70 J	19 J	8 J	50 J	< 10
4-Chloroaniline	220	< 350	< 350	< 350	< 360	< 360	< 10
Hexachlorobutadiene	--	< 350	< 350	< 350	< 360	< 360	< 10
4-Chloro-3-methylphenol	240	< 350	< 350	< 350	< 360	< 360	< 10
2-Methylnaphthalene	36400	< 350	160 J	30 J	< 360	110 J	< 10
Hexachlorocyclopentadiene	--	< 350 J	< 350 J	< 350 J	< 360 J	< 360 J	< 10 J
2,4,6-Trichlorophenol	--	< 350	< 350	< 350 J	< 360	< 360	< 10
2,4,5-Trichlorophenol	100	< 830	< 890	< 860 J	< 910	< 910	< 25
2-Chloronaphthalene	--	< 350	< 350	< 350 J	< 360	< 360	< 10
2-Nitroaniline	430	< 880	< 890 J	< 880 J	< 910	< 910	< 25
Dimethylphthalate	200	< 350	< 350	< 350 J	< 360	< 360	< 10
Acenaphthylene	41000	12 J	< 350	< 350 J	< 360	< 360	< 10
2,6-Dinitrotoluene	1000	< 350	< 350	< 350 J	< 360	< 360	< 10
3-Nitroaniline	500	< 880	< 890	< 890 J	< 910	< 910	< 25

(1) Sample depth provided in feet below land surface.

ug/kg Micrograms per kilogram.

ug/L Micrograms per liter.

B Analyte also detected in Method Blank.

J Estimated concentrations.

NA Not analyzed.

NYSDEC New York State Department of Environmental Conservation.

* NYSDEC Division Technical and Administrative Guidance Memorandum:
Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 5-3. Concentrations of Target Compound List Semi-Volatile Organic Compounds in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

	Sample ID:	B-16	B-17	B-21	B-23	TP-VII S	Field Blanks	
							FB 073097	FB 073197
	Sample Date:	7/30/97	7/31/97	7/31/97	7/30/97	7/30/97	7/30/97	7/31/97
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L	ug/L
Parameters:								
	<u>NYSDEC</u> <u>Recommended Soil</u> <u>Cleanup</u> <u>Objectives*</u> <u>(in ug/kg)</u>							
Acenaphthene	50000	130 J	< 350	< 350 J	14 J	< 360	< 10	< 10
2,4-Dinitrophenol	200	< 880	< 890	< 880 J	< 910	< 910	< 25	< 25
4-Nitrophenol	100	< 880	< 890	< 880 J	< 910	< 910	< 25	< 25
Dibenzofuran	6200	58 J	26 J	< 350 J	9 J	< 360	< 10	< 10
2,4-Dinitrotoluene	--	< 350	< 350	< 350 J	< 360	< 360	< 10	< 10
Diethylphthalate	7100	< 350	< 350	< 350 J	< 360	< 360	< 10	< 10
4-Chlorophenyl-phenylether	--	< 350	< 350	< 350 J	< 360	< 360	< 10	< 10
Fluorene	50000	160 J	< 350	< 350 J	14 J	< 360	< 10	< 10
4-Nitroaniline	--	< 880	< 890	< 880 J	< 910	< 910	< 25	< 25
4,6-Dinitro-2-methylphenol	--	< 880	< 890	< 880 J	< 910	< 910 J	< 25	< 25
N-Nitrosodiphenylamine (1)	--	< 350	< 350	< 350 J	< 360	< 360 J	< 10	< 10
4-Bromophenyl-phenylether	--	< 350	< 350	< 350 J	< 360	< 360 J	< 10	< 10
Hexachlorobenzene	410	< 350	< 350	< 350 J	< 360	< 360 J	< 10	< 10
2,4-Dichlorophenol	1000	< 880	< 890	< 880 J	< 910	1100 J	< 25	< 25
Benzo(a)anthracene	50000	1600	110 J	65 J	200 J	74 J	< 10	< 10
Anthracene	50000	340 J	14 J	27 J	35 J	32 J	< 10	< 10
Carbazole	--	200 J	< 350	< 350 J	25 J	< 360 J	< 10	< 10
Di-n-butylphthalate	8100	< 350	< 350	< 350 J	< 360	< 360 J	0.3 JB	0.5 JB
Fluoranthene	50000	2400	120 J	< 350 J	300 J	< 360 J	< 10	< 10
Pyrene	50000	1200	130 J	< 350 J	160 J	220 J	< 10	< 10
Butylbenzylphthalate	50000	< 350	< 350	< 350 J	< 360	< 360 J	< 10	< 10
3,3'-Dichlorobenzidine	--	< 350	< 350	< 350 J	< 360	< 360 J	< 10	< 10
Benzo(a)anthracene	224	1200	67 J	< 350 J	130 J	< 360 J	< 10	< 10
Chrysene	400	1400	99 J	< 350 J	170 J	< 360 J	< 10	< 10
bis(2-Ethylhexyl)phthalate	50000	< 350	< 350	< 350 J	< 360	< 360 J	0.9 JB	4 JB
Di-n-octylphthalate	50000	< 350	< 350	< 350 J	< 360	< 360 J	< 10	< 10
Benzo(b)fluoranthene	224	1300	88 J	< 350 J	160 J	< 360 J	< 10	< 10
Benzo(k)fluoranthene	224	1100	79 J	< 350 J	150 J	< 360 J	< 10	< 10
Benzo(a)pyrene	61	1100	84 J	< 350 J	130 J	< 360 J	< 10	< 10
Indeno(1,2,3-cd)pyrene	3200	280 J	89 J	< 350 J	43 J	< 360 J	< 10	< 10
Dibenz(a,h)anthracene	14	< 350	< 350	< 350 J	12 J	< 360 J	< 10	< 10
Benzo(g,h,i)perylene	50000	78 J	53 J	< 350 J	20 J	< 360 J	< 10	< 10
Benzyl alcohol	--	--	--	--	--	--	--	--
Benzoic acid	--	--	--	--	--	--	--	--

ug/kg Micrograms per kilogram.

ug/L Micrograms per liter.

B Analyte also detected in Method Blank.

J Estimated concentrations.

NA Not analyzed.

NYSDEC New York State Department of Environmental Conservation.

* NYSDEC Division Technical and Administrative Guidance Memorandum:

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Westbury, New York									
Site Investigation Sample ID:		B-2	B-24	B-27	B-28	B-29	TP-VII BTM	TP-VII E	
Sample Date:		7/31/97	7/30/97	7/30/97	7/30/97	8/1/97	7/30/97	7/30/97	
Sample Depth (1):		10-12 ft	4-5 ft	0-2 ft	10-12 ft	2-4 ft	4-6 ft	3 ft	
Units:		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	
Parameter: NYSDEC Recommended Soil Cleanup Objectives* (in ug/kg)									
Benzene	60	< 1	< 1.1	< 1	< 1.2	< 6.6	< 1.1	< 1	
n-Butylbenzene	--	< 1	< 1.1	< 1	< 1.2	270	< 1.1	< 1	
s-Butylbenzene	--	< 1	< 1.1	< 1	< 1.2	15	< 1.1	< 1	
t-Butylbenzene	--	< 1	< 1.1	< 1	< 1.2	< 6.6	< 1.1	< 1	
Ethylbenzene	5500	< 1	< 1.1	< 1	< 1.2	96	< 1.1	< 1	
Isopropylbenzene	--	< 1	< 1.1	< 1	< 1.2	< 6.6	< 1.1	< 1	
Isopropyltoluene	--	< 1	< 1.1	< 1	< 1.2	22	< 1.1	< 1	
Methyl-t-butyl ether	--	< 1	< 1.1	< 1	< 1.2	< 6.6	< 1.1	< 1	
Naphthalene	13000	< 1	< 1.1	< 1	< 1.2	140	1	< 1	
n-Propylbenzene	50000	< 1	< 1.1	< 1	< 1.2	12	< 1.1	< 1	
Toluene	1500	< 1	< 1.1	< 1	< 1.2	< 6.6	< 1.1	< 1	
1,2,4-Trimethylbenzene	--	< 1	< 1.1	< 1	< 1.2	490	< 1.1	< 1	
1,3,5-Trimethylbenzene	--	< 1	< 1.1	< 1	< 1.2	470	< 1.1	< 1	
Xylenes (total)	1200	< 1	< 1.1	< 1	< 1.2	240	< 1.1	< 1	

(1) Sample depth provided in feet below land surface.

Micrograms per liter.

Micrograms per kilogram.

No applicable objective.

NYSDDEC New York State Department of Environmental Conservation.

NYSDC Division Technical and Administrative Guidance Memorandum:

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995):

Table 5.4. Concentrations of Petroleum Related Volatile Organic Compounds in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameter	Site Investigation Sample ID:				Cesspool:		Cesspool:		GP-1	GP-2
	TP-VII N	TP-VI S	TP-VII W	Liquid	Soil					
	7/29/97	7/30/97	7/29/97	7/30/97	7/30/97				7/29/97	7/25/97
	3 ft	3 ft	3 ft	8 ft	8 ft				5-12 ft	4-8 ft
	ug/kg	ug/kg	ug/kg	ug/L	ug/kg				ug/kg	ug/kg
NYSDEC Recommended Soil Cleanup Objectives* (in ug/kg)										
Benzene	< 1.2	< 1.2	< 3.6	< 1	< 2.3			< 1.2	< 1.1	
n-Butylbenzene	< 1.2	< 1.2	< 3.6	5	170			< 1.2	< 1.1	
s Butylbenzene	< 1.2	< 1.2	< 3.6	< 1	200			< 1.2	< 1.1	
t Butylbenzene	< 1.2	< 1.2	< 3.6	< 1	38			< 1.2	< 1.1	
Ethylbenzene	< 1.2	< 1.2	< 3.6	< 1	< 2.3			< 1.2	< 1.1	
isopropylbenzene	< 1.2	< 1.2	< 3.6	< 1	< 2.3			< 1.2	< 1.1	
Isopropylfluore	< 1.2	< 1.2	< 3.6	5	260			< 1.2	< 1.1	
Methyl-t-butyl ether	< 1.2	< 1.2	< 3.6	< 1	< 2.3			< 1.2	< 1.1	
Naphthalene	< 1.2	< 1.2	< 3.6	2	< 2.3			< 1.2	< 1.1	
n-Propylbenzene	< 1.2	< 1.2	< 3.6	< 1	< 2.3			< 1.2	< 1.1	
Toluene	< 1.2	< 1.2	6	< 1	< 2.3			2	< 1.1	
1,2,4-Trimethylbenzene	< 1.2	< 1.2	< 3.6	< 1	< 2.3			< 1.2	< 1.1	
1,3,5-Trimethylbenzene	< 1.2	< 1.2	< 3.6	< 1	42			< 1.2	< 1.1	
Xylenes (total)	< 1.2	< 1.2	< 3.6	< 1	55			< 1.2	< 1.1	

(1) Sample depth provided in foot below land surface.

ug/L Micrograms per liter.

ug/kg Micrograms per kilogram.

-- No applicable objective.

NYSDEC New York State Department of Environmental Conservation.

NYSDEC Division Technical and Administrative Guidance Memorandum.

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 5-4. Concentrations of Petroleum Related Volatile Organic Compounds in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameter:	Field Blanks			
	Site Investigation Sample ID:	FB 072597	FB 072997	FB 080197
	Sample Date:	7/25/97	7/29/97	8/1/97
	Sample Depth (1):	NA	NA	NA
	Units:	ug/L	ug/L	ug/L
NYSDEC Recommended Soil Cleanup Objectives* (in ug/kg)				
Benzene	60	< 1	< 1	< 1
n-Butylbenzene	--	< 1	< 1	< 1
s-Butylbenzene	--	< 1	< 1	< 1
t-Butylbenzene	--	< 1	< 1	< 1
Ethylbenzene	5500	< 1	< 1	< 1
Isopropylbenzene	--	< 1	< 1	< 1
Isopropyltoluene	--	< 1	< 1	< 1
Methyl-t-butyl other	--	< 1	< 1	< 1
Naphthalene	13000	< 1	< 1	< 1
n-Propylbenzene	50000	< 1	< 1	< 1
Toluene	1500	< 1	< 1	< 1
1,2,4-Trimethylbenzene	--	< 1	< 1	< 1
1,3,5-Trimethylbenzene	--	< 1	< 1	< 1
Xylenes (total)	1200	< 1	< 1	< 1

(1) Sample depth provided in feet below land surface.

ug/L Micrograms per liter

ug/kg Micrograms per kilogram

-- No applicable objective

NYSDEC New York State Department of Environmental Conservation.

NYSDEC Division Technical and Administrative Guidance Memorandum.

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 5-5. Concentrations of Target Compound List Volatile Organic Compounds in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Site Investigation Sample ID:		B-16	B-17	B-21	B-23	TP-VII S
Sample Date:		7/30/97	7/31/97	7/31/97	7/30/97	7/30/97
Sample Depth (1):		0-2 ft	0-2 ft	0-2 ft	0-2 ft	3 ft
Units:		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameters:						
<u>NYSDEC</u> <u>Recommended Soil</u> <u>Cleanup Objectives*</u> <u>(in ug/kg)</u>						
Chloromethane	--	< 11	< 11	< 11	< 11	< 11
Bromomethane	--	< 11	< 11	< 11	< 11	< 11
Vinyl chloride	200	< 11	< 11	< 11	< 11	< 11
Chloroethane	1900	< 11	< 11	< 11	< 11	< 11 J
Methylene chloride	100	< 11	< 11	< 11	< 11	< 11
Acetone	200	< 23	< 24	< 23	< 29	< 11
Carbon disulfide	2700	< 11	< 11	< 11	< 11	< 11
1,1-Dichloroethene	400	< 11	< 11	< 11	< 11	< 11
1,1-Dichloroethane	200	< 11	< 11	< 11	< 11	< 11
1,2-Dichloroethene (total)	250	< 11	< 11	< 11	< 11	< 11
Chloroform	300	< 11	< 11	< 11	< 11	< 11
1,2-Dichloroethane	100	< 11	< 11	< 11	< 11	< 11 J
2-Butanone	300	< 11	< 11	< 11	< 11	< 11 J
1,1,1-Trichloroethane	800	< 11	< 11	< 11	< 11	< 11
Carbon tetrachloride	600	< 11	< 11	< 11	< 11	< 11 J
Bromodichloromethane	--	< 11	< 11	< 11	< 11	< 11
1,2-Dichloropropane	--	< 11	< 11	< 11	< 11	< 11
cis-1,3-Dichloropropene	--	< 11	< 11	< 11	< 11	< 11
Trichloroethene	700	< 11	< 11	< 11	< 11	< 11
Dibromochloromethane	--	< 11	< 11	< 11	< 11	< 11
1,1,2-Trichloroethane	--	< 11	< 11	< 11	< 11	< 11
Benzene	60	< 11	< 11	< 11	< 11	< 11
trans-1,3-Dichloropropene	--	< 11	< 11	< 11	< 11	< 11
Bromoform	--	< 11	< 11	< 11	< 11	< 11
4-Methyl-2-pentanone	1000	< 11	< 11	< 11	< 11	< 11
2-Hexanone	--	< 11	< 11	< 11	< 11	< 11
Tetrachloroethene	1400	< 11	< 11	< 11	< 11	< 11 J
1,1,2,2-Tetrachloroethane	600	< 11	< 11	< 11	< 11	< 11
Toluene	1500	< 11	< 11	< 11 J	< 11	< 11
Chlorobenzene	1700	< 11	< 11	< 11	< 11	< 11
Ethylbenzene	5500	< 11	< 11	< 11	< 11	< 11
Styrene	--	< 11	< 11	< 11	< 11	< 11
Xylene (total)	1200	< 11	< 11	< 11	< 11	< 11

(1) Sample depth provided in feet below land surface.

ug/kg Micrograms per kilogram.

ug/L Micrograms per liter.

B Analyte also detected in Method Blank

I Estimated concentration.

*SDEC New York State Department of Environmental Conservation.

* NYSDEC Division Technical and Administrative Guidance Memorandum:
Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 5-5. Concentrations of Target Compound List Volatile Organic Compounds in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

		Trip Blanks		Field Blanks	
Site Investigation Sample ID:		TB 73097	TB 73197	FB 073097	FB 073197
Sample Date:		7/30/97	7/31/97	7/30/97	7/31/97
Sample Depth (1):		NA	NA	NA	NA
Units:		ug/L	ug/L	ug/L	ug/L
Parameters:					
NYSDEC Recommended Soil Cleanup Objectives* (in ug/kg)					
Chloromethane	--	< 10	< 10	< 10	< 10
Bromomethane	--	< 10	< 10	< 10	< 10
Vinyl chloride	200	< 10	< 10	< 10	< 10
Chloroethane	1900	< 10	< 10	< 10	< 10
Methylene chloride	100	1 JB	1 J	< 10	1 J
Acetone	200	< 10	< 10	< 10	< 10
Carbon disulfide	2700	< 10	< 10	< 10	< 10
1,1-Dichloroethene	400	< 10	< 10	< 10	< 10
1,1-Dichloroethane	200	< 10	< 10	< 10	< 10
1,2-Dichloroethene (total)	550	< 10	< 10	< 10	< 10
Chloroform	300	< 10	< 10	3 J	< 10
1,2-Dichloroethane	100	< 10	< 10	< 10	< 10
2-Butanone	300	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	800	< 10	< 10	< 10	< 10
Carbon tetrachloride	600	< 10 J	< 10 J	< 10 J	< 10 J
Bromodichloromethane	--	< 10	< 10	0.3 J	< 10
1,2-Dichloropropane	--	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	--	< 10	< 10	< 10	< 10
Trichloroethene	700	< 10	< 10	< 10	< 10
Dibromochloromethane	--	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	--	< 10	< 10	< 10	< 10
Benzene	60	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropene	--	< 10	< 10	< 10	< 10
Bromoform	--	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	1000	< 10	< 10	< 10	< 10
2-Hexanone	--	< 10	< 10	< 10	< 10
Tetrachloroethene	1400	< 10	< 10	< 10	< 10
1,1,2,2-Tetrachloroethane	600	< 10	< 10	< 10	< 10
Toluene	1500	< 10	< 10	< 10	< 10
Chlorobenzene	1700	< 10	< 10	< 10	< 10
Ethylbenzene	5500	< 10	< 10	< 10	< 10
Styrene	--	< 10	< 10	< 10	< 10
Xylene (total)	1200	< 10	< 10	< 10	< 10

(1) Sample depth provided in feet below land surface.

ug/kg Micrograms per kilogram.

ug/L Micrograms per liter.

B Analyte also detected in Method Blank.

I Estimated concentration.

NYSDEC New York State Department of Environmental Conservation.

* NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 5-6. Concentrations of Target Analyte List: Metals in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York. Page 1 of 4

Parameters:	Site Investigation Sample ID:	B-16	B-17	B-17 END PT	B-17 NORTH	B-17 SOUTH	B-17 EAST	B-17 WEST
	Sample Date:	7/31/97	7/31/97	1/2/98	1/2/98	1/2/98	1/2/98	1/2/98
	Sample Dpth (1):	0-2 ft	0-2 ft	3-4 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NYSDEC								
Recommended Soil Cleanup Objectives*								
	(in mg/kg)							
Aluminum	SB	3610	3740	--	--	--	--	--
Antimony	SB	< 1.5	< 1.5	--	--	--	--	--
Arsenic	7.5 or SB	2.2	3.4	--	--	--	--	--
Barium	300 or SB	34.3 B	22.0 B	--	--	--	--	--
Beryllium	0.16 or SB	0.25 B	0.24 B	--	--	--	--	--
Cadmium	10 or SB	0.42 B	0.39 B	--	--	--	--	--
Calcium	SB	5480 J	3400 J	--	--	--	--	--
Chromium	50 or SB	4.5	5.9	--	--	--	--	--
Cobalt	30 or SB	1.6 B	1.8 B	--	--	--	--	--
Copper	25 or SB	15.9	78.8	7.6	16	24.5	22.6	8.4
Iron	2,000 or SB	4930	6600	--	--	--	--	--
Lead	SB	120 J	62.3 J	--	--	--	--	--
Magnesium	SB	2690	1750	--	--	--	--	--
Manganese	SB	121	60.0	--	--	--	--	--
Mercury	0.1	< 0.10	3.7	< 0.11	0.21	0.5	1.1	0.54
Nickel	13 or SB	4.1 B	5.9 B	--	--	--	--	--
Potassium	SB	190 J	141 J	--	--	--	--	--
Selenium	2 or SB	0.78 B	0.62 B	--	--	--	--	--
Silver	SB	< 0.19	< 0.18	--	--	--	--	--
Sodium	SB	< 48.9 J	< 33.4 J	--	--	--	--	--
Thallium	SB	< 0.58	< 0.56	--	--	--	--	--
Vanadium	150 or SB	7.5 B	7.9 B	--	--	--	--	--
Zinc	20 or SB	116	61.5	--	--	--	--	--

(1) Sample depth provided in feet below land surface.

mg/kg Milligrams per kilogram.

ug/L Micrograms per liter.

B Analyte result between instrument detection limit and contract required detection limit.

J Estimated value.

NYSDEC New York State Department of Environmental Conservation.

* NYSDEC Division Technical and Administrative Guidance Memorandum:

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

SB Site Background.

Table 5-6. Concentrations of Target Analyte List Metals in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Site Investigation Sample ID:	B-21	B-23	B-23 END PT	B-23 NORTH	B-23 SOUTH	B-23 EAST	B-23 WEST
	Sample Date:	7/31/97	7/31/97	1/2/98	1/2/98	1/2/98	1/2/98	1/2/98
	Sample Dpth (1):	0-2 ft	0-2 ft	3-4 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NYSDEC								
Recommended Soil Cleanup Objectives* (in mg/kg)								
Aluminum:	SB	4560	6500	--	--	--	--	--
Antimony	SB	< 1.6	< 1.7	--	--	--	--	--
Arsenic	7.5 or SB	2.4	2.9	--	--	--	--	--
Barium	300 or SB	12.5 B	39.5 B	--	--	--	--	--
Beryllium	0.16 or SB	0.23 B	0.30 B	--	--	--	--	--
Cadmium	10 or SB	< 0.19	0.48 B	--	--	--	--	--
Calcium	SB	3500 J	2230 J	--	--	--	--	--
Chromium	50 or SB	5.8	11.8	10.6	8.5	8	9.4	199
Cobalt:	30 or SB	1.3 B	1.6 B	--	--	--	--	--
Copper	25 or SB	< 8.4	41.8	--	--	--	--	--
Iron	2,000 or SB	5660	9880	--	--	--	--	--
Lead	SB	19.5 J	105 J	--	--	--	--	--
Magnesium:	SB	2070	731 B	--	--	--	--	--
Manganese	SB	106	176	--	--	--	--	--
Mercury	0.1	< 0.10	1.1	1.3	6.4	< 0.11	102	6.7
Nickel	13 or SB	< 3.4	10.4	--	--	--	--	--
Potassium	SB	154 J	142 J	--	--	--	--	--
Selenium	2 or SB	0.63 B	1.1	--	--	--	--	--
Silver	SB	< 0.19	< 0.21	--	--	--	--	--
Sodium	SB	< 75.8 J	< 76.8 J	--	--	--	--	--
Thallium	SB	< 0.58	< 0.64	--	--	--	--	--
Vanadium	150 or SB	7.1 B	12.4	--	--	--	--	--
Zinc	20 or SB	< 22.9	92.5	--	--	--	--	--

(1) Sample depth provided in feet below land surface.

mg/kg Milligrams per kilogram.

ug/L Micrograms per liter.

B Analyte result between instrument detection limit and contract required detection limit.

J Estimated value.

NYSDEC New York State Department of Environmental Conservation.

* NYSDC Division Technical and Administrative Guidance Memorandum:

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

SB Site Background.

Table 5-6. Concentrations of Target Analyte List Metals in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Site Investigation Sample ID:	TP-VII S	A	B	C	D	E	F
	Sample Date:	7/30/97	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Sample Depth (1):	3 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NYSDEC								
Recommended Soil Cleanup Objectives*								
(in mg/kg)								
Aluminum	SB	3880	--	--	--	--	--	--
Antimony	SB	< 1.8	--	--	--	--	--	--
Arsenic	7.5 or SB	14.6	--	--	--	--	--	--
Barium	300 or SB	41.1	B	--	--	--	--	--
Beryllium	0.16 or SB	0.26	B	--	--	--	--	--
Cadmium	10 or SB	2.7	--	--	--	--	--	--
Calcium	SB	6480	J	--	--	--	--	--
Chromium	50 or SB	34.8	--	--	--	--	--	--
Cobalt	30 or SB	2.0	B	--	--	--	--	--
Copper	25 or SB	77.7	--	--	--	--	--	--
Iron	2,000 or SB	8700	--	--	--	--	--	--
Lead	SB	107	J	--	--	--	--	--
Magnesium	SB	3490	--	--	--	--	--	--
Manganese	SB	80.3	--	--	--	--	--	--
Mercury	0.1	0.52	0.39	2.7	0.35	6.3	7.8	9.7
Nickel	13 or SB	34.6	--	--	--	--	--	--
Potassium	SB	152	J	--	--	--	--	--
Selenium	2 or SB	0.84	B	--	--	--	--	--
Silver	SB	0.37	B	--	--	--	--	--
Sodium	SB	< 56.8	--	--	--	--	--	--
Thallium	SB	< 0.66	--	--	--	--	--	--
Vanadium	150 or SB	9.1	B	--	--	--	--	--
Zinc	20 or SB	146	--	--	--	--	--	--

(1) Sample depth provided in feet below land surface

mg/kg Milligrams per kilogram.

ug/L Micrograms per liter.

B Analyte result between instrument detection limit and contract required detection limit.

J Estimated value.

NYSDEC New York State Department of Environmental Conservation.

* NYSDEC Division Technical and Administrative Guidance Memorandum:

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

SB Site Background.

Table 5-6. Concentrations of Target Analyte List Metals in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Sample ID:	Field Blanks		
		FB 073097	FB 073197	Field Blank
Sample Date:	7/30/97	7/31/97	11/12/99	
Sample Dpth (1):	NA	NA	NA	NA
Units:	ug/L	ug/L	ug/L	ug/L
NYSDEC Recommended Soil Cleanup Objectives* (in mg/kg)				
Aluminum	< 32.0	398	--	--
Antimony	< 8.0	< 8.0	--	--
Arsenic	< 3.0	< 3.0	--	--
Barium	< 1.0	1.6	B	--
Beryllium	< 1.0	< 1.0	--	--
Cadmium	< 1.0	< 1.0	--	--
Calcium	117	220	B	--
Chromium	< 1.0	2.8	B	--
Cobalt	< 1.0	< 1.0	--	--
Copper	2.3	10.6	B	--
Iron	39.5	57.2	B	--
Lead	1.6	< 1.0	--	--
Magnesium	20.8	48.7	B	--
Manganese	1.2	21.9	--	--
Mercury	< 0.20	< 0.20	< 0.10	--
Nickel	6.9	3.2	B	--
Potassium	< 442	< 442	--	--
Selenium	< 3.0	< 3.0	J	--
Silver	< 1.0	< 1.0	--	--
Sodium	685	617	B	--
Thallium	< 3.0	< 3.0	--	--
Vanadium	< 1.0	< 1.0	--	--
Zinc	18.9	48.6	--	--

(1) Sample depth provided in feet below land surface.
 mg/kg Milligrams per kilogram.
 ug/L Micrograms per liter.
 B Analyte result between instrument detection limit and contract required detection limit.
 J Estimated value.
 NYSDEC New York State Department of Environmental Conservation.
 * NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).
 SB Site Background.

Table 5-7. Concentrations of Polychlorinated Biphenyls in IRM Excavation End Point Soil Samples for the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Confirmatory Sample ID:											
	Sample Date:	TP-VII BTM	TP-VII E	TP-VII N	TP-VII W	TP-VII S	TP-VII-SW	B-12	B-21 BOT	B-21 SIDE	B-24	
	Sample Depth (1):	7/29/97	7/30/97	7/29/97	7/29/97	7/30/97	12/30/97	12/30/97	12/30/97	12/30/97	7/30/97	
	Units:	4-6 ft	3 ft	3 ft	3 ft	3 ft	3 ft	2-3 ft	3 ft	2 ft	4-5 ft	
		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	
Recommended Soil Cleanup Objectives for Sub-Surface* (in ug/kg)												
Aroclor-1016	NA	< 380	< 693	< 40	< 36	< 18350	< 36	< 35	< 36	< 37	< 1835	
Aroclor-1221	NA	< 780	< 1407	< 80	< 74	< 37250	< 72	< 70	< 73	< 76	< 3725	
Aroclor-1232	NA	< 380	< 693	< 40	< 36	< 18350	< 36	< 35	< 36	< 37	< 1835	
Aroclor-1242	NA	< 380	< 693	< 40	< 36	< 18350	< 36	< 35	< 36	< 43	< 1835	
Aroclor-1248	NA	920 B	< 693	< 40	< 36	50000	< 36	< 35	210	< 37	2600	
Aroclor-1254	NA	1200	1300	65	7.7 J	48000	63	19 J	180	92	6100	
Aroclor-1260	NA	360	< 693	36 J	10 J	< 18350	< 36	< 35	< 36	< 37	< 1835	
Total PCBs:												
Surface	1000	NA	NA	NA	NA	NA	NA	NA	NA	135		
Subsurface	10000	2120	1300	101	17.7	98000	63	19	390	NA	8700	

(1) Sample depth provided in feet below land surface.

ug/kg Micrograms per kilogram.

J Estimated concentration.

B Parameter also detected in Method Blank.

NYSDDEC New York State Department of Environmental Conservation.

, NYSDDEC NYSDDEC Division Technical and Administrative Guidance Memorandum.

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

NA Not Applicable.

Table 5-7. Concentrations of Polychlorinated Biphenols in IRM Excavation End Point Soil Samples for the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	NYSDEC Recommended Soil Cleanup Objectives*									
	(in ug/kg)									
Confirmatory Sample ID:	GP-1 (SIDE)	GP-1 (BTM)	GP-1 (14-16)	GP-1 (16-18)	GP-2	NP-A	NP-B	NP-C	NP-D	
Sample Date:	7/29/97	7/29/97	10/22/97	10/22/97	7/25/97	6/1/00	6/1/00	6/1/00	6/1/00	
Sample Depth (1)	5 ft	12 ft	14-16 ft	16-18 ft	4-8 ft	2 ft	2 ft	2 ft	2 ft	
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	
Aroclor-1016	< 716	< 36960	< 680	< 39	< 36	< 70	< 35	< 85	< 77	
Aroclor-1221	< 1450	< 75040	< 1380	< 79	< 73	< 142	< 70	< 173	< 157	
Aroclor-1232	< 716	< 36960	< 680	< 39	< 36	< 70	< 35	< 85	< 77	
Aroclor-1242	< 716	< 36960	< 680	< 39	< 36	< 70	< 35	< 85	< 77	
Aroclor-1248	2400 B	120000 B	870	18 J	29 J	< 70	41	83 J	60 J	
Aroclor-1254	3100	91000	1000	56	140	390	88	350	440	
Aroclor-1260	< 716	< 36960	< 680	< 39	< 36	120	38	150	170	
Total PCBs:										
Surface	1000	NA	NA	NA	NA	510	167	583	670	
Subsurface	10000	211000	1870	74	169	NA	NA	NA	NA	

(1) Sample depth provided in feet below land surface.

ug/kg: Micrograms per kilogram.

J: Estimated concentration.

B: Parameter also detected in Method Blank.

NYSDEC: New York State Department of Environmental Conservation.

: NYSDC Division Technical and Administrative Guidance Memorandum:

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

NA: Not Applicable.

Table S-7. Concentrations of Polychlorinated Biphenols in IRM Excavation End Point Soil Samples for the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters.	NYSDEC Recommended Soil Cleanup Objectives ⁽¹⁾ (in ug/kg)					
	Confirmatory Sample ID:	NP-E	BLD2 A	BLD2 B	BLD2 C	BLD2 D
	Sample Date:	6/1/00	6/1/00	6/1/00	6/1/00	6/1/00
	Sample Depth (1):	3 ft	2 ft	2 ft	2 ft	3 ft
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameters:						
						CP1
						7/5/00
						12 ft
						ug/kg
Aroclor-1016	NA	< 185	< 39	< 190	< 68	< 213
Aroclor-1221	NA	< 377	< 78	< 385	< 138	< 432
Aroclor-1232	NA	< 185	< 39	< 190	< 68	< 213
Aroclor-1242	NA	< 185	< 39	< 190	< 68	< 213
Aroclor-1248	NA	120 J	< 39	< 190	< 68	< 213
Aroclor-1254	NA	740	42	500	240	560
Aroclor-1260	NA	420	< 39	240	120	270
Total PCBs:						
Surface	1000	NA	42	740	360	NA
Subsurface	10000	1280	NA	NA	NA	830

(1) Sample depth provided in feet below land surface.

ug/kg Micrograms per kilogram.

J Estimated concentration

B Parameter also detected in Method Blank.

NYSDEC New York State Department of Environmental Conservation.

, NYSDDEC Division Technical and Administrative Guidance Memorandum:

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

NA Not Applicable.

Table 5-8. Concentrations of Pesticides in IRM End Point Soil Samples for the Site Located at 425 Merrick Avenue, Westbury, New York.

Confirmatory Sample ID:	TP-VII-SW	B-21 BOT	B-21 SIDE
Sample Date:	12/30/97	12/30/97	12/30/97
Sample Depth (1):	3 ft	3 ft	2 ft
Units:	ug/kg	ug/kg	ug/kg
Parameters:			
<u>NYSDEC</u> <u>Recommended Soil</u> <u>Cleanup Objectives*</u> (in ug/kg)			
alpha-BHC	110	< 1.8	< 19
beta-BHC	200	< 1.8	< 19
delta-BHC	300	< 1.8	< 19
gamma-BHC (Lindane)	60	< 1.8	< 19
Heptachlor	100	< 1.8	< 19
Aldrin	41	2.1 PB	< 19
Heptachlor Epoxide	20	< 1.8	< 19
Endosulfan I	900	< 1.8	< 19
Dieldrin	44	< 3.6	< 3.8
4,4'-DDE	2100	< 3.6	< 3.8
Endrin	100	< 3.6	< 3.8
Endosulfan II	900	< 3.6	< 3.8
4,4'-DDB	2900	< 3.6	< 3.8
Endosulfan Sulfate	1000	< 3.6	< 3.8
4,4'-DDT	2100	1.4 JP	< 3.8
Methoxychlor	10000	< 18	< 19
Endrin Ketone	--	< 3.6	< 3.8
Endrin Aldehyde	--	< 3.6	< 3.8
alpha-Chlordane	540	< 1.8	< 1.9
gamma-Chlordane	540	< 1.8	< 1.9
Toxaphene	--	< 180	< 190

(1)	Sample depth provided in feet below land surface.
ug/kg	Micrograms per kilogram
E	Estimated concentration.
B	Parameter also detected in Method Blank.
P	Laboratory duplicate precision limit not met.
NYSDEC	New York State Department of Environmental Conservation.
*	NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 5-9. Concentrations of Semi-Volatile Organic Compounds in IRM End Point Soil Samples for the 425 Site Located at Merrick Avenue, Westbury, New York.

		Cesspool
Confirmatory Sample ID:		Soil
Sample Date:		1/2/98
Sample Depth (1):		11 ft
Units:		ug/kg
Parameters:		
NYSDEC		
Recommended Soil		
Cleanup		
Objectives:		
(n ug/kg)		
Phenol	30	< 350
bis(2-Chloroethyl)ether	--	< 350
2-Chlorophenol	800	< 350
1,3-Dichlorobenzene	1600	< 350
1,4-Dichlorobenzene	8500	< 350
1,2-Dichlorobenzene	7900	< 350
2-Methylphenol	100	< 350
2,2'-oxybis(1-Chloropropane)	--	< 350
4-Methylphenol	900	< 350
N-Nitroso-di-n-propylamine	--	< 350
Hexachloroethane	--	< 350
Nitrobenzene	200	< 350
sophorone	4400	< 350
2-Nitrophenol	330	< 350
2,4-Dimethylphenol	--	< 350
bis(2-Chloroethoxy)methane	--	< 350
2,4-Dichlorophenol	400	< 350
1,2,4-Trichlorobenzene	3400	< 350
Naphthalene	13000	< 350
4-Chloroaniline	220	< 350
Hexachlorobutadiene	--	< 350
4-Chloro-3-methylphenol	240	< 350
2-Methylnaphthalene	36400	< 350
Hexachlorocyclopentadiene	--	< 350
2,4,6-Trichlorophenol	--	< 350
2,4,5-Trichlorophenol	100	< 1696
2-Chloronaphthalene	--	< 350
2-Nitroaniline	430	< 1696
Dimethylphthalate	200	< 350
Acenaphthylene	41000	< 350
2,6-Dinitrotoluene	1000	< 350
3-Nitroaniline	500	< 1696
Acenaphthene	50000	< 350

(1) Sample depth provided in feet below land surface.

ug/kg Micrograms per kilogram.

-- Not applicable.

NYSDEC New York State Department of Environmental Conservation.

* NYSDEC Division Technical and Administrative Guidance Memorandum:
Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 5-9. Concentrations of Semi-Volatile Organic Compounds in iRM End Point Soil Samples for the 425 Site Located at Merrick Avenue, Westbury, New York.

		Cesspool
Confirmatory Sample ID:		Soil
Sample Date:		1/2/98
Sample Depth (1):		11 ft
Units:		ug/kg
Parameters:		
NYSDEC		
Recommended Soil		
Cleanup		
Objectives*		
(in ug/kg)		
2,4-Dinitrophenol	200	< 1696
4-Nitrophenol	100	< 1696
Dibenzofuran	6200	< 350
2,4-Dinitrotoluene	--	< 350
Diethylphthalate	7100	< 350
4-Chlorophenyl-phenylether	--	< 350
Fluorene	50000	< 350
4-Nitroaniline	--	< 1696
4,6-Dinitro-2-methylphenol	--	< 1696
N-Nitrosodiphenylamine (1)	--	< 350
4-Bromophenyl-phenylether	--	< 350
Hexachlorobenzene	410	< 350
Pentachlorophenol	1000	< 1696
Phenanthrene	50000	< 350
Anthracene	50000	< 350
Carbazole	--	< 350
Di-n-butylphthalate	8100	< 350
Fluoranthene	50000	< 350
Pyrene	50000	< 350
Butylbenzylphthalate	50000	< 350
3,3'-Dichlorobenzidine	--	< 350
Benzo(a)anthracene	224	< 700
Chrysene	400	< 350
bis(2-Ethylhexyl)phthalate	50000	< 350
Di-n-octylphthalate	50000	< 350
Benzo(b)fluoranthene	224	< 350
Benzo(k)fluoranthene	224	< 350
Benzo(a)pyrene	61	< 350
Indeno(1,2,3-cd)pyrene	3200	< 350
Dibenz(a,h)anthracene	14	< 350
Benzo(g,h,i)perylene	50000	< 350
Benzyl alcohol	--	< 350
Benzoic acid	--	< 1696

(1) Sample depth provided in feet below land surface.

ug/kg Micrograms per kilogram.

-- Not applicable.

NYSDEC New York State Department of Environmental Conservation.

* NYSDEC Division Technical and Administrative Guidance Memorandum:
Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 5-10 Concentrations of Metals in IRM Excavation End Point Soil Samples for 425 Merrick Avenue, Westbury, New York

Parameters:	Confirmatory Sample ID	B-17 NORTH	B-17 SOUTH	B-17 EAST	B-17 BOTTOM	B-23 NORTH	B-23 SOUTH	B-23 EAST	B-23 BOTTOM
	Sample Date	4/29/98	4/29/98	4/29/98	4/29/98	4/29/98	4/29/98	4/29/98	4/29/98
	Sample Depth (')	2 ft	2 ft	2 ft	4 ft	5 ft	5 ft	5 ft	10 ft
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NYSDEC Recommended Soil Cleanup Objectives ⁽¹⁾ (In mg/kg)									
Aluminum	SB	--	--	--	--	--	--	--	--
Antimony	SB	--	--	--	--	--	--	--	--
Arsenic	7.5 or SB	--	--	--	--	--	--	--	--
Barium	300 or SB	--	--	--	--	--	--	--	--
Beryllium	0.16 or SB	--	--	--	--	--	--	--	--
Cadmium	1.0 or SB	--	--	--	--	--	--	--	--
Calcium	SB	--	--	--	--	--	--	--	--
Chromium	10 or SB	--	--	--	--	--	--	--	--
Cobalt	30 or SB	--	--	--	--	--	--	--	--
Copper	25 or SB	--	--	--	--	--	--	--	--
Iron	2,000 or SB	--	--	--	--	--	--	--	--
Lead	SB	--	--	--	--	--	--	--	--
Magnesium	SB	--	--	--	--	--	--	--	--
Manganese	SB	--	--	--	--	--	--	--	--
Mercury	0.1	< 0.094	0.12	J < 0.10	< 0.10	< 0.088	< 0.1*	< 0.10	< 0.10
Nickel	12 or SB	--	--	--	--	--	--	--	--
Fluorine	SB	--	--	--	--	--	--	--	--
Selenium	2 or SB	--	--	--	--	--	--	--	--
Silver	SB	--	--	--	--	--	--	--	--
Sodium	SB	--	--	--	--	--	--	--	--
Thallium	SB	--	--	--	--	--	--	--	--
Vanadium	150 or SB	--	--	--	--	--	--	--	--
Zinc	20 or SB	--	--	--	--	--	--	--	--

(*) Sample depth provided in foot below land surface

mg/kg Milligrams per kilogram

N Spiked sample recovery not within control limits

B Analyte result between instrument detection limit and contract required detection limit

J Estimated value

NYSDEC New York State Department of Environmental Conservation

NYSDLC Division Technical and Administrative Guidance Memorandum

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995)

SB Site Background

Page 2 of 3

Parameters	Confirmatory Sample ID, Sample Date, Sample Depth (1), Units	B-23 WEST 4/23/95 5 ft mg/kg	TP-VII SW 12/30/97 3 ft mg/kg	NP-A 6/1/00 mg/kg	NP-B 6/1/00 mg/kg	NP-C 6/1/00 mg/kg	NP-D 6/1/00 mg/kg	NP-E 6/1/00 mg/kg
NYSDEC Recommended Soil Cleanup Objectives* (in mg/kg)								
Ar-40p	SB	--	3810	--	--	--	--	--
Antimony	SB	--	0.86	--	--	--	--	--
Arsenic	7.5 or SB	--	1.5	--	--	--	--	--
Barium	360 or SB	--	14.4	--	--	--	--	--
Beryllium	0.16 or SB	--	< 0.22	--	--	--	--	--
Calcium	1.0 or SB	--	< 0.22	--	--	--	--	--
Cadmium	SB	--	1040	--	--	--	--	--
Chromium	10 or SB	4.0	4.2	--	--	--	--	--
Cobalt	30 or SB	--	0.7	--	--	--	--	--
Copper	25 or SB	--	8.7	--	--	--	--	--
Iron	2,000 or SB	--	4040	--	--	--	--	--
Lead	SB	--	27.8	--	--	--	--	--
Magnesium	SB	--	330	--	--	--	--	--
Manganese	SB	--	57.2	--	--	--	--	--
Mercury	0.1	< 0.081	< 0.079	0.11	0.041	0.13	0.096	0.23
Nickel	13 or SB	--	3.3	--	--	--	--	--
Potassium	SB	--	96	--	--	--	--	--
Selenium	2 or SB	--	1.1	--	--	--	--	--
Silver	SB	--	< 0.22	--	--	--	--	--
Sodium	SB	--	30.6	--	--	--	--	--
Thallium	SB	--	0.44	--	--	--	--	--
Vanadium	150 or SB	--	6.8	--	--	--	--	--
Zinc	20 or SB	--	50.3	--	--	--	--	--

(1) Sample depth provided in feet below land surface.

(c)
Milligrams per kilogram

Study	Sample size (n)	Sample type	Intervention	Outcome	Effect size (d)	Significance (p)
1	100	Control	Control	Control	0.00	0.00
2	100	Control	Control	Control	0.00	0.00
3	100	Control	Control	Control	0.00	0.00
4	100	Control	Control	Control	0.00	0.00
5	100	Control	Control	Control	0.00	0.00
6	100	Control	Control	Control	0.00	0.00
7	100	Control	Control	Control	0.00	0.00
8	100	Control	Control	Control	0.00	0.00
9	100	Control	Control	Control	0.00	0.00
10	100	Control	Control	Control	0.00	0.00
11	100	Control	Control	Control	0.00	0.00
12	100	Control	Control	Control	0.00	0.00
13	100	Control	Control	Control	0.00	0.00
14	100	Control	Control	Control	0.00	0.00
15	100	Control	Control	Control	0.00	0.00
16	100	Control	Control	Control	0.00	0.00
17	100	Control	Control	Control	0.00	0.00
18	100	Control	Control	Control	0.00	0.00
19	100	Control	Control	Control	0.00	0.00
20	100	Control	Control	Control	0.00	0.00
21	100	Control	Control	Control	0.00	0.00
22	100	Control	Control	Control	0.00	0.00
23	100	Control	Control	Control	0.00	0.00
24	100	Control	Control	Control	0.00	0.00
25	100	Control	Control	Control	0.00	0.00
26	100	Control	Control	Control	0.00	0.00
27	100	Control	Control	Control	0.00	0.00
28	100	Control	Control	Control	0.00	0.00
29	100	Control	Control	Control	0.00	0.00
30	100	Control	Control	Control	0.00	0.00
31	100	Control	Control	Control	0.00	0.00
32	100	Control	Control	Control	0.00	0.00
33	100	Control	Control	Control	0.00	0.00
34	100	Control	Control	Control	0.00	0.00
35	100	Control	Control	Control	0.00	0.00
36	100	Control	Control	Control	0.00	0.00
37	100	Control	Control	Control	0.00	0.00
38	100	Control	Control	Control	0.00	0.00
39	100	Control	Control	Control	0.00	0.00
40	100	Control	Control	Control	0.00	0.00
41	100	Control	Control	Control	0.00	0.00
42	100	Control	Control	Control	0.00	0.00
43	100	Control	Control	Control	0.00	0.00
44	100	Control	Control	Control	0.00	0.00
45	100	Control	Control	Control	0.00	0.00
46	100	Control	Control	Control	0.00	0.00
47	100	Control	Control	Control	0.00	0.00
48	100	Control	Control	Control	0.00	0.00
49	100	Control	Control	Control	0.00	0.00
50	100	Control	Control	Control	0.00	0.00
51	100	Control	Control	Control	0.00	0.00
52	100	Control	Control	Control	0.00	0.00
53	100	Control	Control	Control	0.00	0.00
54	100	Control	Control	Control	0.00	0.00
55	100	Control	Control	Control	0.00	0.00
56	100	Control	Control	Control	0.00	0.00
57	100	Control	Control	Control	0.00	0.00
58	100	Control	Control	Control	0.00	0.00
59	100	Control	Control	Control	0.00	0.00
60	100	Control	Control	Control	0.00	0.00
61	100	Control	Control	Control	0.00	0.00
62	100	Control	Control	Control	0.00	0.00

13: Analyte result between instrument detection limit and contract required detection limit.
14: Spliked sample recovery not within contract limits.

Estimated value	Analyte result (ug)
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Estimated value.
New York State Department of Environmental Conservation.

NYSDEC
New York State Department of Environmental Conservation
NYSDEC Division Technical and Administrative Guidance Memorandum

NYSDC Division Technical and Administrative Support for the National
 Demonstration of Soil Cleanup Objective and Cleanup Levels (April 1995)

10/20/2010 9:01 AM

Table 5-10. Concentrations of Metals in IRM Excavation End Point Soil Samples for 425 Merrick Avenue, Westbury, New York

Parameters	Confirmatory Sample ID:	BLD2 A	BLD2 B	BLD2 C	BLD2 D	CP1
	Sample Date:	6/7/00	6/7/00	6/7/00	6/7/00	7/5/00
	Sample Depth (1):					10 ft
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NYSDEC						
Recommended Soil Cleanup Objectives* (in mg/kg)						
Aluminum	SB	--	--	--	--	--
Antimony	SB	--	--	--	--	--
Arsenic	7.5 or SB	--	--	--	--	--
Barium	300 or SB	--	--	--	--	--
Beryllium	0.16 or SB	--	--	--	--	--
Cadmium	1.0 or SB	--	--	--	--	--
Calcium	SB	--	--	--	--	--
Chromium	10 or SB	--	--	--	--	--
Cobalt	30 or SB	--	--	--	--	--
Copper	25 or SB	--	--	--	--	--
Iron	2,000 or SB	--	--	--	--	--
Lead	SB	--	--	--	--	--
Magnesium	SB	--	--	--	--	--
Manganese	SB	--	--	--	--	--
Mercury	0.1	0.064	0.47	0.13	0.86	0.014
Nickel	13 or SB	--	--	--	--	--
Potassium	SB	--	--	--	--	--
Selenium	2 or SB	--	--	--	--	--
Silver	SB	--	--	--	--	--
Sodium	SB	--	--	--	--	--
Thallium	SB	--	--	--	--	--
Vanadium	150 or SB	--	--	--	--	--
Zinc	20 or SB	--	--	--	--	--

(1) Sample depth provided in feet below land surface.

mg/kg Milligrams per kilogram.

N Soaked sample recovery not within control limits

B Analyte result between instrument detection limit and contract required detection limit.

J Estimated value.

NYSDEC New York State Department of Environmental Conservation.

* NYSDEC Division Technical and Administrative Guidance Memorandum.

Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

SB Site Background.

Table 5-11. Concentrations of Target Compound List Volatile Organic Compounds in Groundwater Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

			Sample ID: MW-1	MW-2	MW-3	MW-3*	N10115T	<u>Filed Blank</u> FB011398	<u>Trip Blank</u> TB 73197
			Sample Date: 1/13/98	1/13/98	1/13/98	1/13/98	1/13/98	1/13/98	7/31/97
			Units: ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameters:									
	USEPA Primary and Secondary Drinking Water Standards (in ug/L)	NYSDEC Ambient Water Quality Standards and Guidance Values (in ug/L)							
Chloromethane	--	--	<10	<10	<10	<10	<10	<10	<10
Bromomethane	--	5	<10	<10	<10	<10	<10	<10	<10
Vinyl chloride	2	2	<10	<10	<10	<10	<10	<10	<10
Chloroethane	--	5	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	5	5	<10	<10	<10	<10	<10	<10	<10
Acetone	--	50	<10	<10	<10	<10	6 JB	<10	<10
Carbon disulfide	--	--	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethene	7	5	<10	<10	2 J	2 J	<10	<10	<10
1,1-Dichloroethane	--	5	<10	<10	<10	<10	<10	<10	<10
1,2-Dichloroethene (total)	70 ^(A)	5	<10	<10	<10	<10	<10	<10	<10
Chloroform	--	7	<10	<10	<10	<10	<10	<10	<10
1,2-Dichloroethane	5	5	<10	<10	<10	<10	<10	<10	<10
2-Butanone	--	50	<10	<10	<10	<10	<10	<10	<10
1,1,1-Trichloroethane	200	5	<10	<10	<10	<10	<10	<10	<10
Carbon tetrachloride	5	5	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	--	50	<10	<10	<10	<10	<10	<10	<10
1,2-Dichloropropane	5	5	<10	<10	<10	<10	<10	<10	<10
cis-1,3-Dichloropropene	--	5	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	5	5	<10	<10	<10	<10	<10	<10	<10
Dibromochloromethane	--	50	<10	<10	<10	<10	<10	<10	<10
1,1,2-Trichloroethane	5	5	<10	<10	<10	<10	<10	<10	<10
Benzene	5	0.7	<10	<10	<10	<10	<10	<10	<10
trans-1,3-Dichloropropene	--	5	<10	<10	<10	<10	<10	<10	<10
Bromoform	--	50	<10	<10	<10	<10	<10	<10	<10
4 Methyl-2-pentanone	--	--	<10	<10	<10	<10	4 J	<10	<10
2-Hexanone	--	50	<10	<10	<10	<10	<10	<10	<10
Tetrachloroethene	5	5	<10	<10	<10	<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	--	5	<10	<10	<10	<10	<10	<10	<10
Toluene	1,000	5	<10	<10	<10	<10	2 J	<10	<10
Chlorobenzene	--	5	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	700	5	<10	<10	<10	<10	<10	<10	<10
Styrene	100	5	<10	<10	<10	<10	<10	<10	<10
Xylene (total)	10	5	<10	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter

B Analyte also detected in Method Blank.

J Estimated concentration.

NYSDEC New York State Department of Environmental Conservation.

USEPA United States Environmental Protection Agency.

* Replicate sample.

^(A) This standard is for the most stringent concentration for the cis 1,2 dichloroethene isomer.

Table 5-12. Concentrations of Target Compound List Semi-Volatile Organic Compounds in Groundwater Samples Collected at the site Located at 425 Merrick Avenue, Westbury, New York.

	Sample ID:	MW-1	MW-2	MW-3	MW-3*	N10115T	Field Blank
	Sample Date:	1/13/98	1/13/98	1/13/98	1/13/98	1/13/98	1/13/98
	Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameters:							
	USEPA Primary and Secondary Drinking Water Standards (in ug/L)	NYSDEC Ambient Water Quality Standards and Guidance Values (in ug/L)					
Phenol	--	1	<10.6	<10.4	<10.5	<10.5	2 J <10.4
bis(2-Chloroethyl)ether	--	1	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
2-Chlorophenol	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
1,3-Dichlorobenzene	--	5	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
1,4-Dichlorobenzene	75	4.7 ^(A)	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
1,2-Dichlorobenzene	600	4.7 ^(A)	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
2-Methylphenol	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
2,2'-oxybis(1-Chloropropane)	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
4-Methylphenol	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
N-Nitroso-di-n-propylamine	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
Hexachloroethane	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
Nitrobenzene	--	5	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
Isophorone	--	50	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
2-Nitrophenol	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
2,4-Dimethylphenol	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
bis(2-Chloroethoxy)methane	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
2,4-Dichlorophenol	--	1	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
1,2,4-Trichlorobenzene	70	5	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
Naphthalene	--	10	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
4-Chloroaniline	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
Hexachlorobutadiene	--	5	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
4-Chloro-3-methylphenol	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
2-Methylnaphthalene	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
Hexachlorocyclopentadiene	50	5	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4 J
2,4,6-Trichlorophenol	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
2,4,5-Trichlorophenol	--	--	<26.5	<26.0	<26.3	<26.3	<27.0 <26.0
2-Chloronaphthalene	--	10	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
2-Nitroaniline	--	--	<26.5	<26.0	<26.3	<26.3	<27.0 <26.0
Dimethylphthalate	--	50	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
Acenaphthylene	--	--	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
2,6-Dinitrotoluene	--	5	<10.6	<10.4	<10.5	<10.5	<10.8 <10.4
3-Nitroaniline	--	--	<26.5	<26.0	<26.3	<26.3	<27.0 <26.0

ug/L Micrograms per liter.

B Analyte also detected in Method Blank

J Estimated concentration.

NYSDEC New York State Department of Environmental Conservation

USEPA United States Environmental Protection Agency.

* Replicate sample.

(A) This value applies to the sum of 1,2-dichlorobenzene and 1,4-dichlorobenzene.

Table 5-13. Concentrations of Polychlorinated Biphenyls in Groundwater Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	USEPA Primary and Secondary Drinking Water Standards		NYSDEC Ambient Water Quality Standards and Guidance Values		Sample ID:		MW-1	MW-1*	MW-1	MW-2	MW-2	MW-2
	(in ug/L)		(in ug/L)		Sample Date:	Units:	1/13/98	3/12/98	5/13/98	1/13/98	3/12/98	5/13/98
							ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Aroclor-1016	--	--	--	--	--	--	<1.25	<1.0	<1.1	<1.1	<1.1	<1.1
Aroclor-1221	--	--	--	--	--	--	<2.5	<2.0	<2.1	<2.1	<2.1	<2.1
Aroclor-1232	--	--	--	--	--	--	<1.25	<1.0	<1.1	<1.1	<1.1	<1.1
Aroclor-1242	--	--	--	--	--	--	0.58 JP	<1.0	<1.1	0.13 J	<1.1	<1.1
Aroclor-1248	--	--	--	--	--	--	<1.25	<1.0	<1.1	<1.1	<1.1	<1.1
Aroclor-1254	--	--	--	--	--	--	<1.25	<1.0	<1.1	<1.1	<1.1	<1.1
Aroclor-1260	--	--	--	--	--	--	<1.25	<1.0	<1.1	<1.1	<1.1	<1.1
Total PCBs	0.5	0.1	0.58	0	0	0	0	0	0	0.13	0	0

ug/L Micrograms per liter.

J Estimated concentration.

P Laboratory Duplicate Precision not Met.

NYSDEC New York State Department of Environmental Conservation.

USEPA United States Environmental Protection Agency.

, Replicate sample.

Table 5-13. Concentrations of Polychlorinated Biphenols in Groundwater Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	USEPA Primary and Secondary Drinking Water Standards		NYSDEC Ambient Water Quality Standards and Guidance Values		Sample ID:		MW-3		MW-3		MW-3		N10115T		N10115T		N10115T	
	(in ug/L)		(in ug/L)		1/13/98		1/13/98		3/12/98		5/13/98		1/13/98		3/12/98		5/13/98	
					ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Aroclor-1016	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.11	<1.11	<1.18	<1.18	<1.18	<1.11	<1.11	<1.11
Aroclor-1221	--	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.22	<2.22	<2.36	<2.36	<2.36	<2.22	<2.22	<2.22
Aroclor-1232	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.11	<1.11	<1.18	<1.18	<1.18	<1.11	<1.11	<1.11
Aroclor-1242	--	--	--	--	0.07 J	0.066 JP	<1.0	<1.0	<1.0	<1.0	<1.11	<1.11	10	<1.18	<1.18	<1.11	<1.11	<1.11
Aroclor-1248	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.11	<1.11	<1.18	<1.18	<1.18	<1.11	<1.11	<1.11
Aroclor-1254	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.11	<1.11	<1.18	<1.18	<1.18	<1.11	<1.11	<1.11
Aroclor-1260	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.11	<1.11	<1.18	<1.18	<1.18	<1.11	<1.11	<1.11
Total PCBs	0.5	0.1	0.07	0.066	0	0	0	0	0	0	0	0	10	0	0	0	0	0

ug/L Micrograms per liter.

J Estimated concentration.

P Laboratory Duplicate Precision not Met.

NYSDEC New York State Department of Environmental Conservation.

USEPA United States Environmental Protection Agency.

, Replicate sample.

Table 5-13. Concentrations of Polychlorinated Biphenols in Groundwater Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Field Blanks			
	Sample ID:	FB011398	FB031298	FB051398
	Sample Date:	1/13/98	3/12/98	5/13/98
	Units:	ug/L	ug/L	ug/L
USEPA Primary and Secondary Drinking Water Standards (in ug/L)				
Aroclor 1016	--	<1.0	<1.1	<1.18
Aroclor 1221	--	<2.1	<2.2	<2.36
Aroclor 1232	--	<1.0	<1.1	<1.18
Aroclor 1242	--	<1.0	<1.1	<1.18
Aroclor 1248	--	<1.0	<1.1	<1.18
Aroclor 1254	--	<1.0	<1.1	<1.18
Aroclor 1260	--	<1.0	<1.1	<1.18
Total PCBs	0.5	0	0	0

ug/L Micrograms per liter.
 J Estimated concentration.
 P Laboratory Duplicate Precision not Met.
 NYSDep New York State Department of Environmental Conservation.
 USEPA United States Environmental Protection Agency.
 , Replicate sample.

Table 5 14. Concentrations of Target Analyte List Metals in Groundwater Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Sample ID:	Sample Date:	Units:	Field Blanks									
				MW-1	MW-1	MW-2	MW-3	MW-3*	N10115T	N10115T	N10115T	FB011398	FB011398
				1/13/98	1/13/98	1/13/98	1/13/98	1/13/98	1/13/98	1/13/98	1/13/98	1/13/98	1/13/98
				ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
				(total)	(dissolved)	(total)	(total)	(total)	(dissolved)	(total)	(dissolved)	(total)	(dissolved)
<u>NYSDEC Ambient</u>													
<u>Water Quality</u>													
<u>Standards and</u>													
<u>Guidance Values</u>													
<u>(in ug/L)</u>													
Aluminum	--			6,250 E	39.1 BE	1,020 E	886 E	623 L	206 E	39.4 BE	38.0 BE	40.6 BE	
Antimony	3			<3.0	<3.0	<3.0	<3.0	3.1 B	<3.0	4.5 B	3.8 B	6.6 B	
Arsenic	25			3.4 B	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Barium	1,000			97.7 B	65.7 B	40.3 B	57.7 B	60.5 B	60.0 B	48.9 B	<1.0	<1.0	
Beryllium	3			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Cadmium	5			<1.0	1.0 B	1.0 B	<1.0	1.1 B	<1.0	<1.0	<1.0	<1.0	
Calcium	--			47,900	43,600	55,900	31,100	30,400	6,170	5,750	17.3 B	130 B	
Chromium	50			8.2 B	<1.0	3.0 B	1.4 B	1.0 B	2.7 B	<1.0	<1.0	<1.0	
Cobalt	--			<1.0	<1.0	1.5 B	<1.0	<1.0	2.5 B	<1.0	<1.0	<1.0	
Copper	200			<10.0	<10.0	<10.0	<10.0	<10.0	242	<10.0	<10.0	<10.0	
Iron	300			5,420	<7.0	411	406	231	49,800	3,230	13.7 B	30.0 B	
Lead	25			5.2	<1.0	<1.0	<1.0	1.6 B	13.3	1.6 B	<1.0	<1.0	
Magnesium	35,000			11,000	9,970	8,470	5,300	5,370	2,400 B	2,210 B	<8.0	12.7 B	
Manganese	300			29.2	9.8 B	14.9 B	34.8	38.1	470	214	<1.0	2.3 B	
Mercury	0.7			<0.20	<0.20	<0.20	<0.20	<0.20	0.32	<0.20	<0.20	<0.20	
Nickel	--			5.8 B	2.6 B	8.6 B	5.2 B	5.1 B	9.5 B	5.3 B	<2.0	2.9 B	
Potassium	--			2,850 BE	2,220 BE	2,620 BE	2,130 BE	2,200 BE	925 BE	825 BE	<18.0 E	34.3 BE	
Selenium	10			3.2 B	2.4 B	2.8 B	2.2 B	2.1 B	3.4 B	<2.0	<2.0	<2.0	
Silver	50			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Sodium	20,000			7,920 E	7,370 E	11,400 E	15,900 E	16,500 E	7,100 E	6,530 E	29.8 BE	39.5 BE	
Thallium	4			<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Vanadium	--			11.4 B	<1.0	1.4 B	1.5 B	1.1 B	<1.0	<1.0	<1.0	<1.0	
Zinc	300			43.7	40.8	23.8	25.1	24.9	95.9	69.7	8.5 B	65.1	

ug/L Micrograms per liter.
 B Analyte result between instrument detection limit and contract required detection limit.
 E Estimated value.
 NYSDEC New York State Department of Environmental Conservation.
 * Replicate sample.

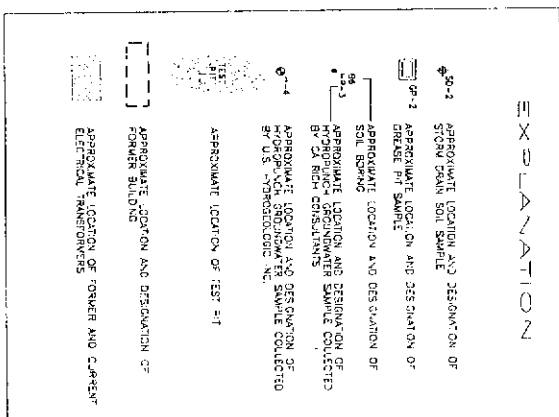
Table 6-1. Site Investigation/Interim Remedial Measure Soil Quality Evaluation, 425 Merrick Avenue, Westbury, New York.

Constituent	Range of Concentrations (in mg/kg)	Site Investigation Samples Above Cleanup Objectives (1)	Maximum	
			Post IRM Confirmatory Sample Concentrations (in mg/kg)	Soil Cleanup Objectives (in mg/kg)
PCBs-Surface Soil	ND to 290	B-12, B-21, A, B, C, D, E, F		1 (surface)
PCBs-Subsurface Soil		B-24, B-32, GP-1/GP-2, TP-VII	8.7	10 (subsurface)
Benzo(a)anthracene	ND to 1.2	B-12, B-13, B-16	0.067	0.224
Chrysene	ND to 1.4	B-12, B-13, B-16	0.072	0.400
Benzo(b)fluoranthene	ND to 1.3	B-12, B-13, B-16, B-24, B-28	0.067	0.224
Benzo(k)fluoranthene	ND to 1.1	B-12, B-13, B-16, B-24, B-28	0.056	0.224
Benzo(a)pyrene	ND to 1.1	B-12, B-13, B-16, B-17, B-23, B-24, B-27, B-28, TP-VII BTM	0.067	0.061
Dibenzo(a,h)anthracene	ND to 0.05	B-13	ND	0.014
Pentachlorophenol	ND to 1.1	TP-VII S	ND	1.0
Phenanthrene	ND to 97	B-32	ND	50.0
Arsenic	ND to 14.6	TP-VII S	1.5	7.5 or SB
Chromium	ND to 199	B-23, TP-VII S	4.6	50 or SB
Copper	ND to 78.8	B-17, TP-VII S	8.7	25 or SB
Mercury	ND to 102	B-17, B-23, B-32, TP-VII S, A, B, C, D, E, F	0.86	0.1
Nickel	ND to 34.6	TP-VII S	3.3	13 or SB

Table 6-2. Site Investigation/Interim Remedial Measure Groundwater Quality Evaluation, 425 Merrick Avenue, Westbury, New York.

Constituent	Range of Concentrations (in ug/L)	Location of detectable Concentrations	NYSDEC Ambient Water Quality Standards & Guidance Values (in ug/L)
<u>Volatile Organic Compounds</u>			
1,1-Dichloroethene	ND to 2	MW-3	5
4-Methyl-2-pentanone	ND to 4	N10115T	--
Toluene	ND to 2	N10115T	5
<u>Semi-Volatile Organic Compounds</u>			
Phenol	ND to 2	N10115T	1
bis(2-Ethylhexyl)phthalate	ND to 51	N10115T	50
<u>Metals*</u>			
Arsenic	ND to 3.4	MW-1	25
Barium	40.3 to 65.7	MW-1, MW-2, MW-3, & N10115T	1,000
Cadmium	1.0 to 1.1	MW-1, MW-2, & MW-3	10
Chromium	ND to 3.0	MW-2 & MW-3	50
Cobalt	ND to 1.5	MW-2 & N10115T	--
Iron	ND to 3,230	MW-1, MW-2, MW-3, & N10115T	300
Lead	ND to 1.6	MW-1, MW-3, & N10115T	25
Magnesium	2,210 to 9,970	MW-1, MW-2, MW-3, & N10115T	35,000
Manganese	9.8 to 214	MW-1, MW-2, MW-3, & N10115T	300
Nickel	2.6 to 8.6	MW-1, MW-2, MW-3, & N10115T	--
Selenium	ND to 2.8	MW-1, MW-2, MW-3, & N10115T	10
Vanadium	ND to 1.5	MW-1, MW-2, & MW-3	--
Zinc	23.8 to 69.7	MW-1, MW-2, MW-3, & N10115T	300

* Metals concentrations include only filtered sample analytical results from wells with high turbidity. Analytes which are qualified due to QA/QC blank contamination are not included.



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450-2 APPROXIMATE LOCATION AND DESIGNATION OF
STORM DRAIN SOIL SAMPLE

GP-2 APPROXIMATE LOCATION AND DESCRIPTION OF GREASE PIT SAMPLE

APPROXIMATE LOCATION AND ORIENTATION OF SOIL BORING

HYDROPLUG-GROUNDWATER SAMPLE COLLECTION
BY SA RICH CONSULTANTS

HYDROPLUCH SQUIDAWATER SAMPLE COLLECTED BY U.S. HYDROLOGIC NC.

APPROXIMATE LOCATION OF TEST: 1

APPROXIMATE LOCATION AND DESIGNATION OF
FORMER BUILDING

APPROXIMATE LOCATION OF FORMER AND CURRENT ELECTRICAL TRANSFORMERS

Figure 2: Schematic representation of the experimental design. The diagram shows a sequence of events: a subject enters a room, a door is closed, and a light is turned on. The subject then performs a task, and the door is opened. The subject then exits the room. The diagram is labeled 'Figure 2' and 'Schematic representation of the experimental design'.

PROJECT NO.	DATE	DRAWN
WPK	7/21/98	CS

PREVIOUS SAMPLING LOCATIONS

NY0009



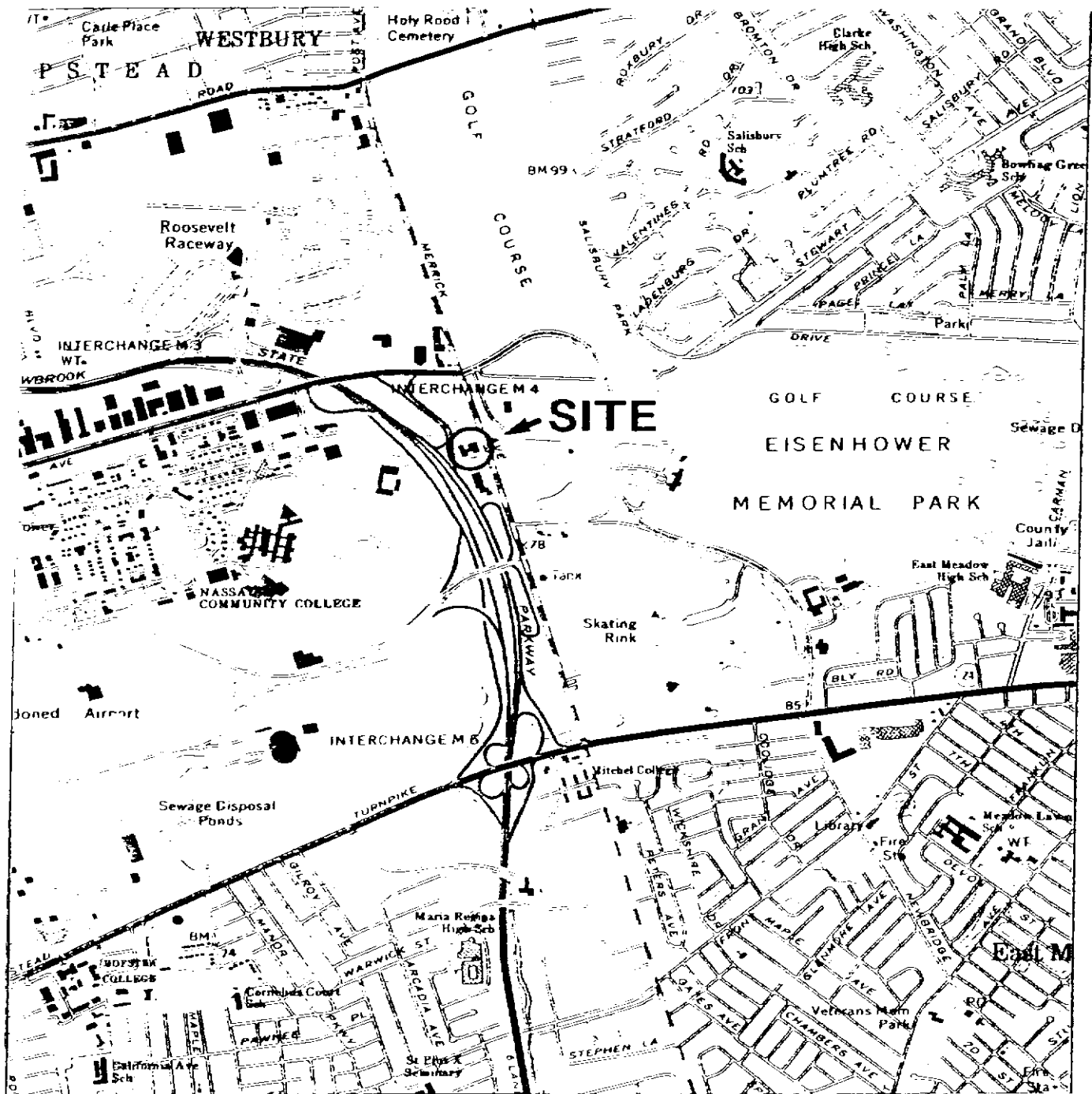
ARCADIS GERAGHTY & MILLER

PROPOSED SUB-FOUNDATION
SAMPLING LOCATIONS

425 MERRICK AVENUE SITE
WESTBURY, NEW YORK

DATE	10/27/72	MR.	LEAD DETECT PROB.	CHECKED G. DUNS	1-2
TIME					
PROJECT NUMBER	NY000952.0001				
DRAWING NUMBER					
SITE PLAN					
10/27/72 10/27/72 10/27/72 10/27/72 10/27/72 10/27/72					

TEPLAN2.LWC 1=00
Copyright © 1998



Source: Freeport, N.Y. USGS Quadrangle, 1979.

0 2000 FT



QUADRANGLE LOCATION

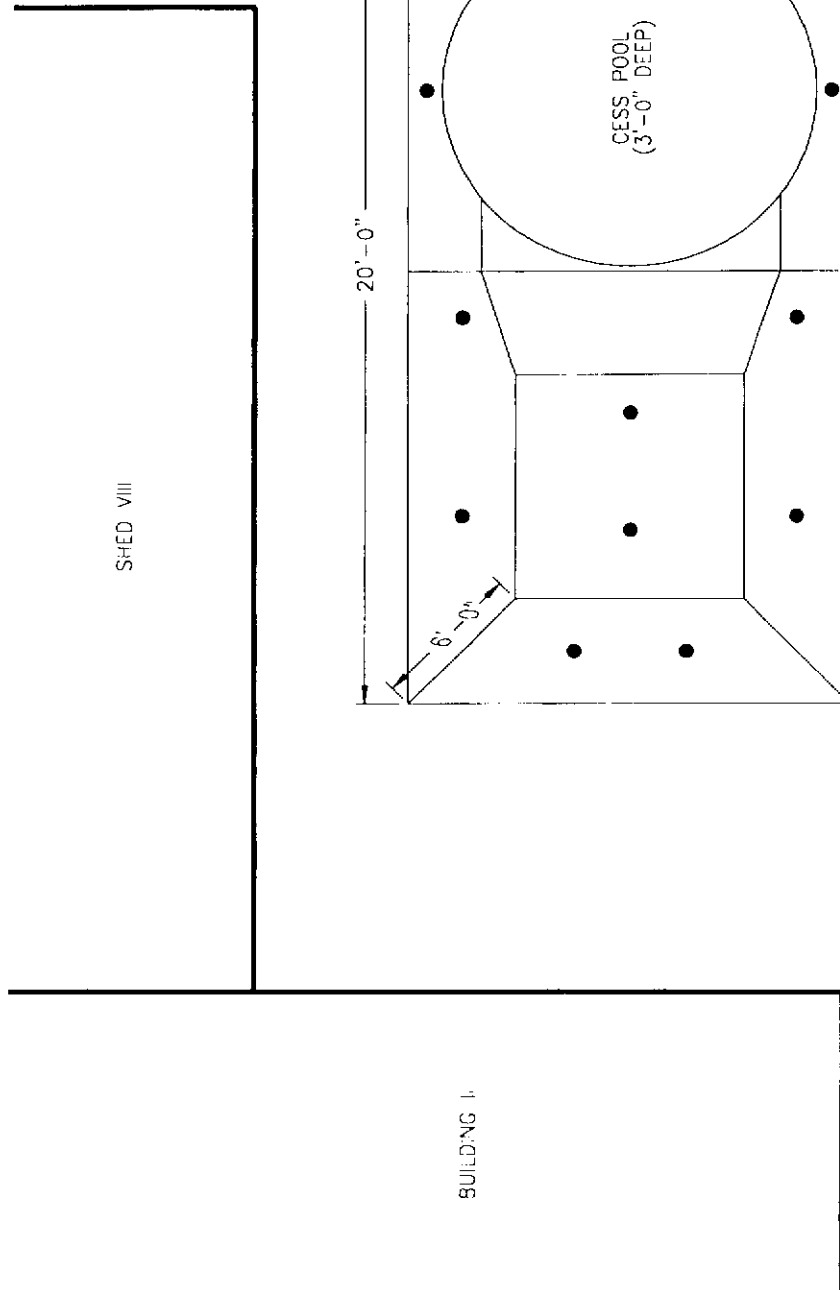
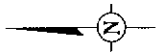


ARCADIS
GERAGHTY & MILLER

DRAWN ORRANN	DATE 8/14/90	PROJECT MANAGER ORRANN, CE	DEPARTMENT MANAGER DEPTMANAGER
SITE LOCATION 425 MERRICK AVENUE SITE WESTBURY, NEW YORK		LEAD DESIGN PROF. LEADDESIGN	CHECKED CHECKED
		PROJECT NUMBER NY000962.00	DRAWING NUMBER Fig. i-1

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NO.	DATE	REVISION DESCRIPTION	BY
			CKD



DRAWN M. WASILEWSKI		DATE 7/9/98	PROJECT MANAGER	DEPARTMENT MANAGER
SCHEMATIC OF TEST PIT VII IRM EXCAVATION 425 MERRICK AVE. SITE WESTBURY, NEW YORK		LEAD DESIGN PROF. C. ERNST	CHECKED C. ERNST	FIGURE
PROJECT NUMBER NY000962.0001		4-1		



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NOT TO SCALE

NOT TO SCALE



ARCADIS GERAGHTY & MILLER

PROJECT MANAGER	DEPARTMENT MANAGER
LEAD DESIGN PROF.	CHECKED G. ERNST
PROJECT NUMBER NY000962.0001	FIGURE 4-2

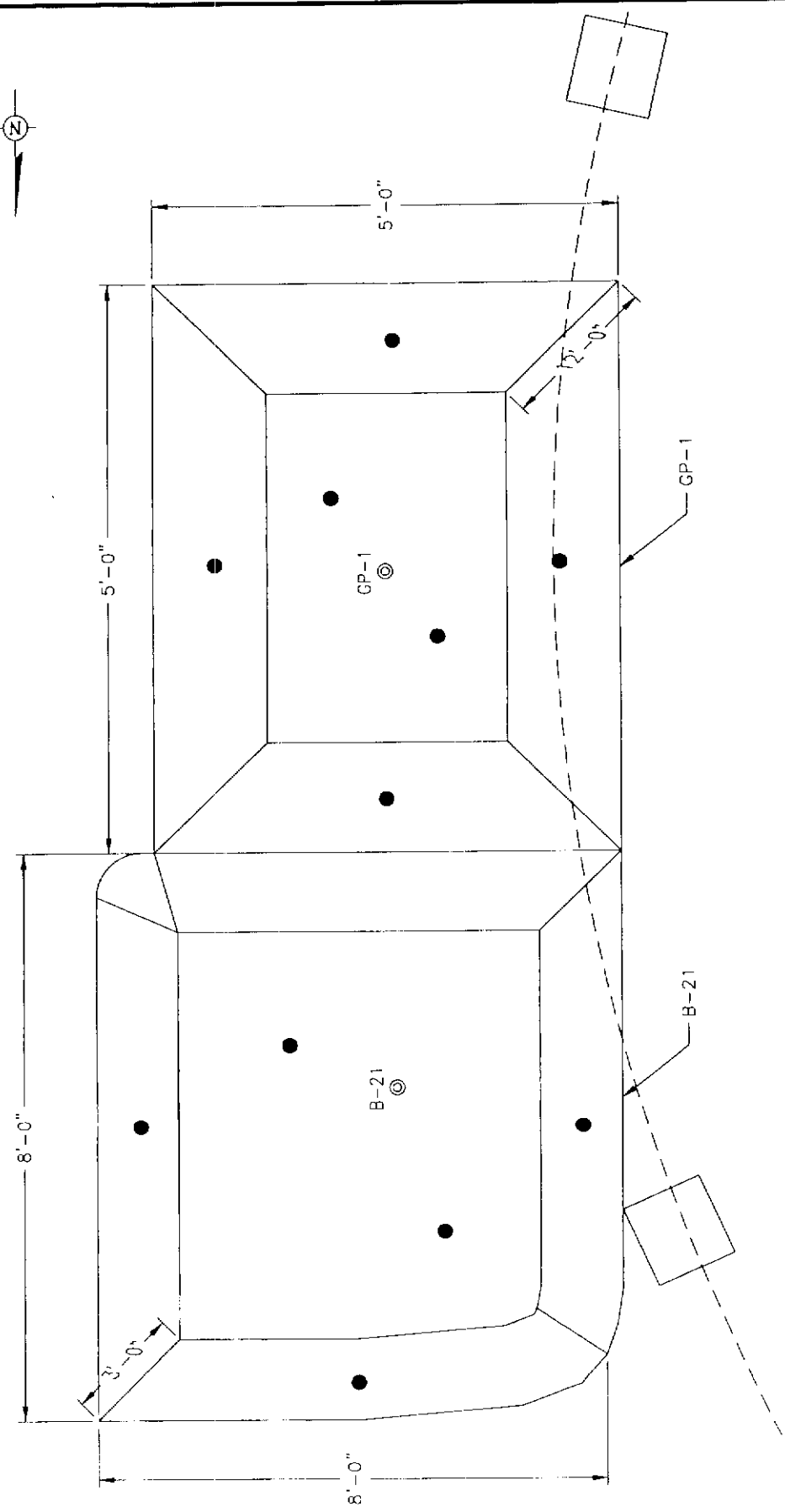
SCHEMATIC OF GP-1 AND
B-21 IRM EXCAVATION
425 MERRICK AVE. SITE
WESTBURY, NEW YORK

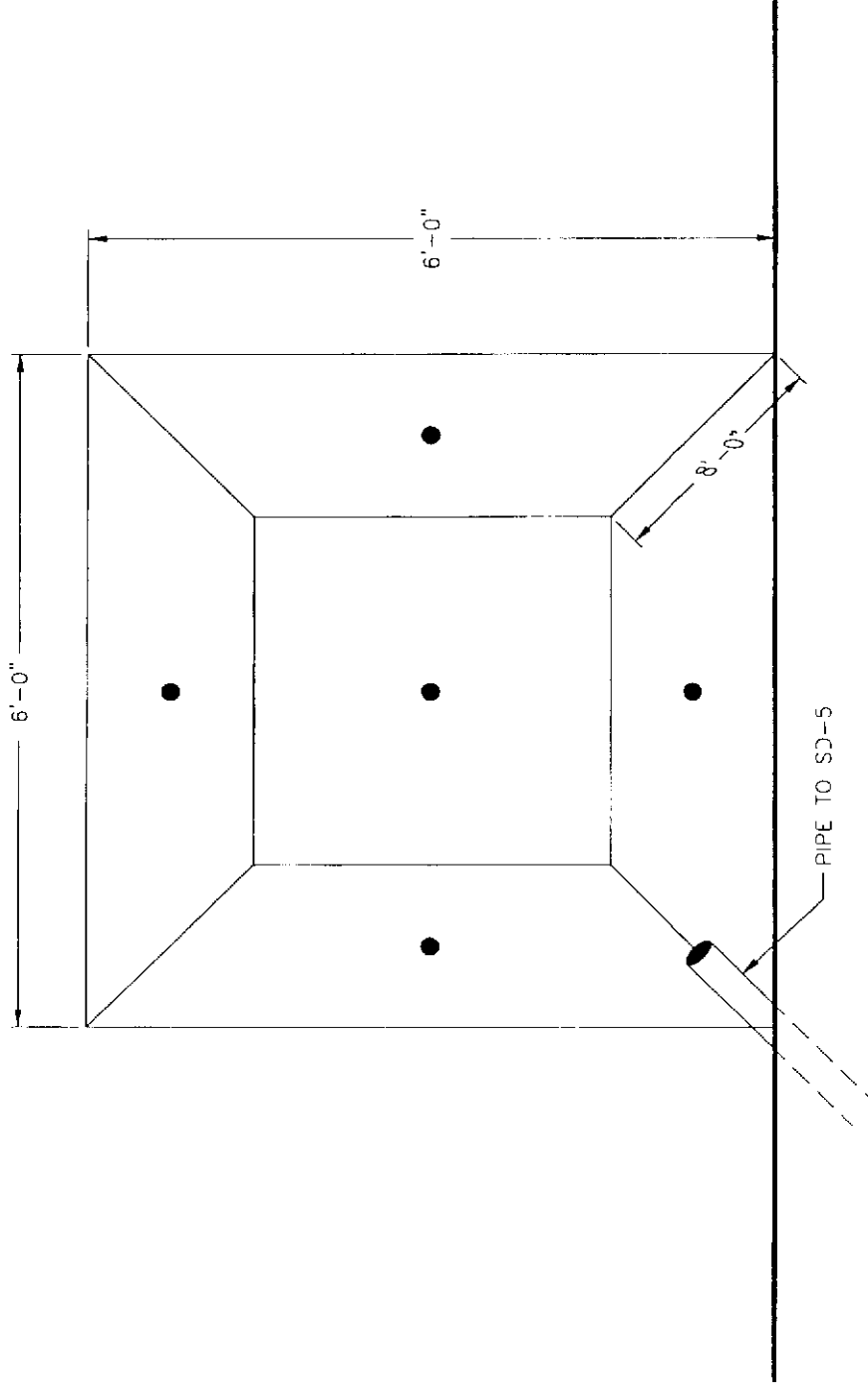
DRAWN
M. WASILEWSKI

DATE
7/9/98

- END-POINT COMPOSITE SOIL
SAMPLE LOCATION
- ⊙ LOCATION AND DESIGNATION OF
SITE INVESTIGATION SOIL BORING

VACUUM SPHERE





SHED VII

END-POINT COMPOSITE SOIL
SAMPLE LOCATION

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NOT TO SCALE



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DRAWN
M. WASILEWSKI

DATE
7/9/98

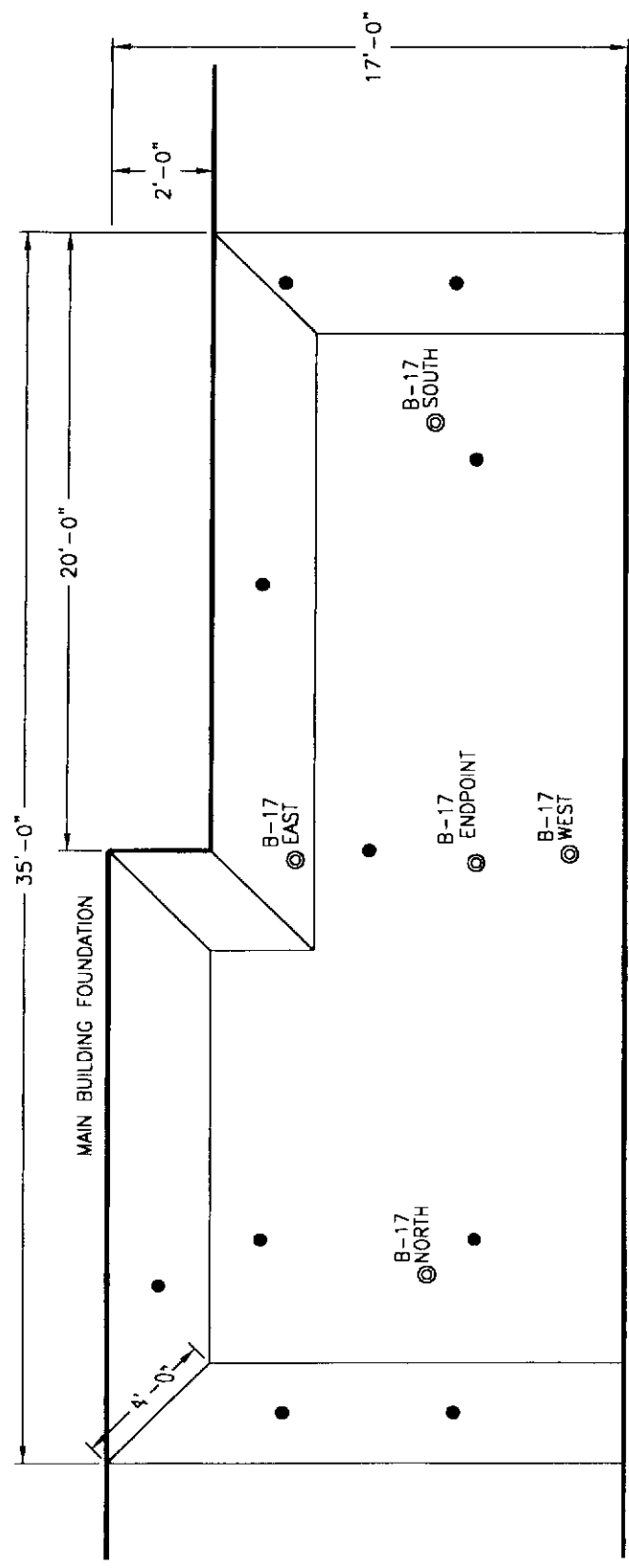
PROJECT MANAGER
LEAD DESIGN PROF.

PROJECT NUMBER
FIGURE

SCHEMATIC OF GP-2
IRM EXCAVATION
425 MERRICK AVE. SITE
WESTBURY, NEW YORK

CHECKED
C. ERNST

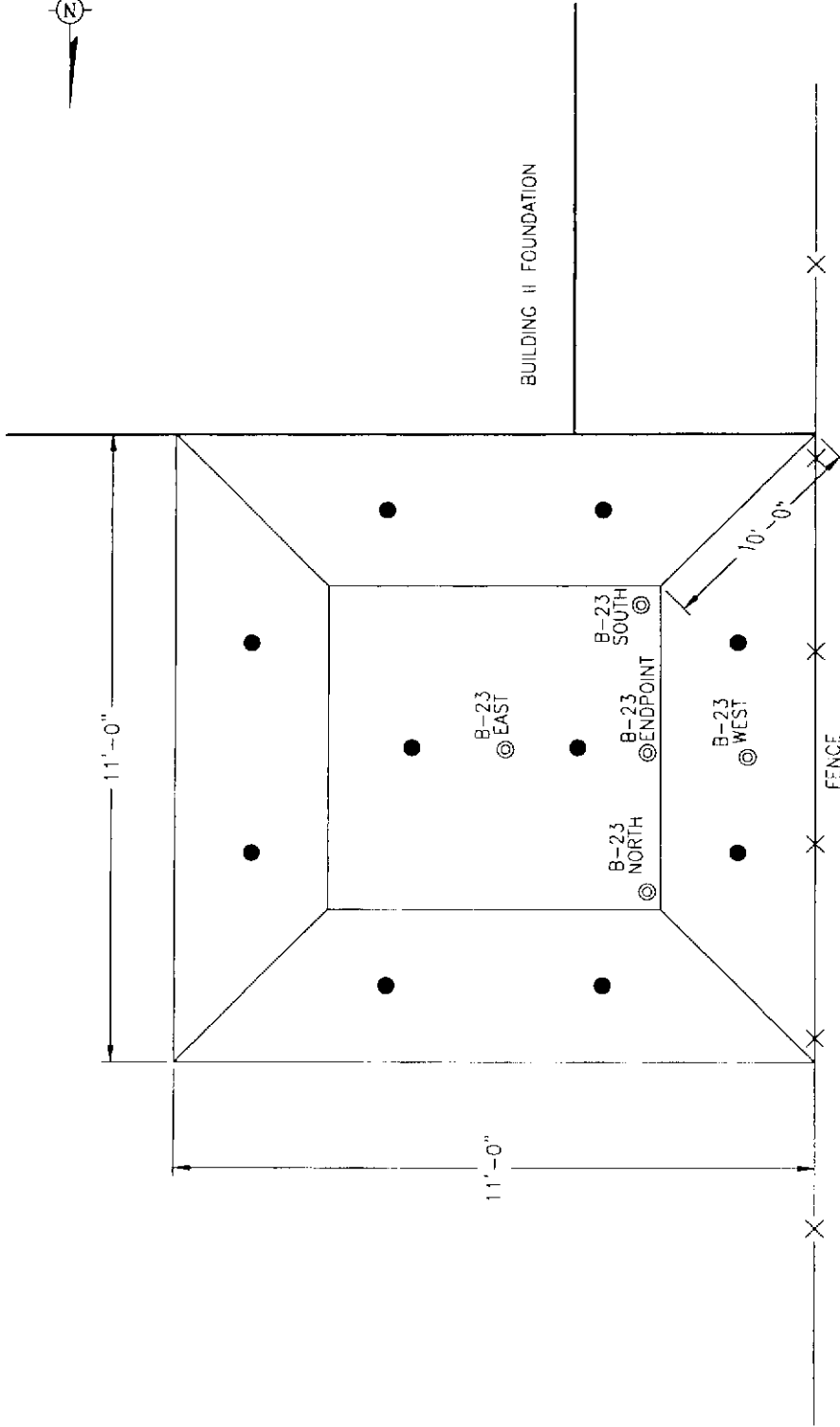
4-3



SHED VII FOUNDATION

- END-POINT COMPOSITE SOIL SAMPLE LOCATION
- ⊙ LOCATION AND DESIGNATION OF SITE INVESTIGATION SOIL BORING

NOT TO SCALE	ARCADIS GERAGHTY & MILLER 	DRAWN M. WASILEWSKI	DATE 7/9/98	PROJECT MANAGER	DEPARTMENT MANAGER	
		SCHEMATIC OF B-17 IRM EXCAVATION				CHECKED G. ERNST
		425 MERRICK AVE. SITE WESTBURY, NEW YORK				FIGURE 4-4
		PROJECT NUMBER NY000962.0001				



- END-POINT COMPOSITE SOIL
SAMPLE LOCATION
- ⊗ LOCATION AND DESIGNATION OF
SITE INVESTIGATION SOIL BORING

NOT TO SCALE



ARCADIS GERAGHTY & MILLER

DRAWN
M. WASLEWSKI

DATE
7/9/98

PROJECT MANAGER

DEPARTMENT MANAGER

SCHEMATIC OF B-23
IRM EXCAVATION

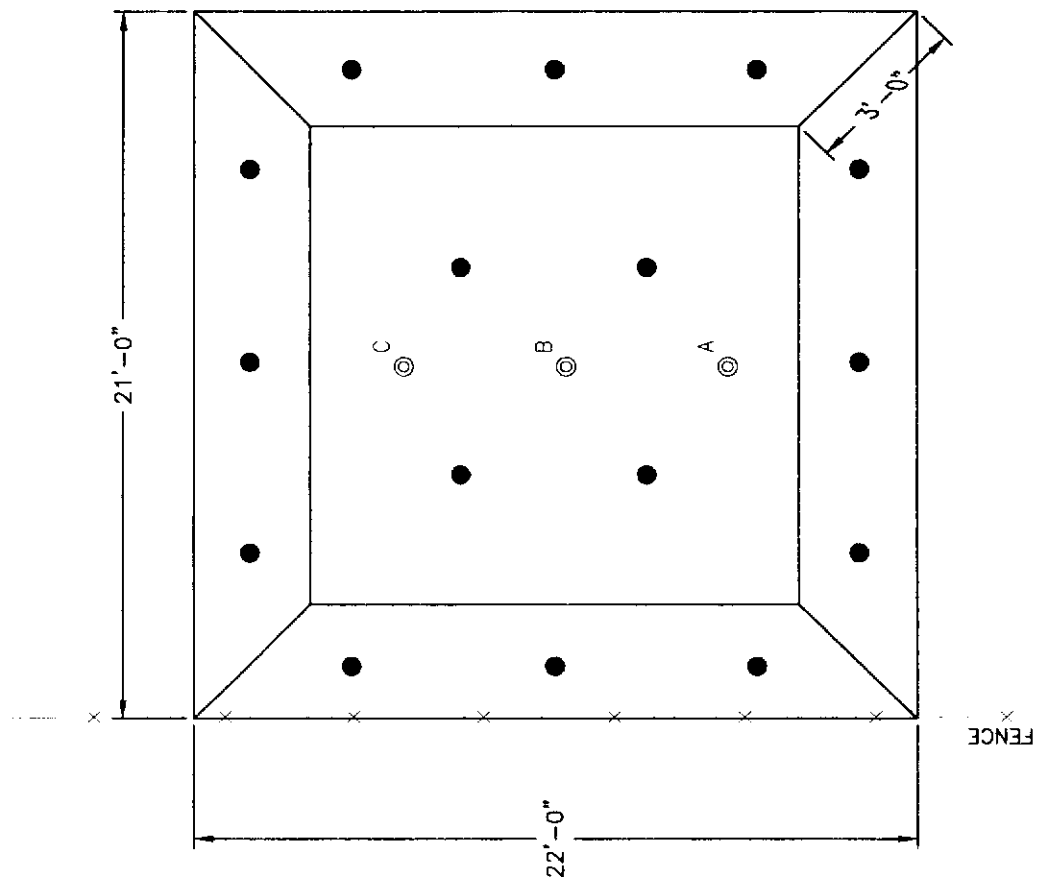
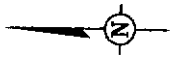
LEAD DESIGN PROF.

CHECKED
G. ERNST

425 MERRICK AVE. SITE
WESTBURY, NEW YORK

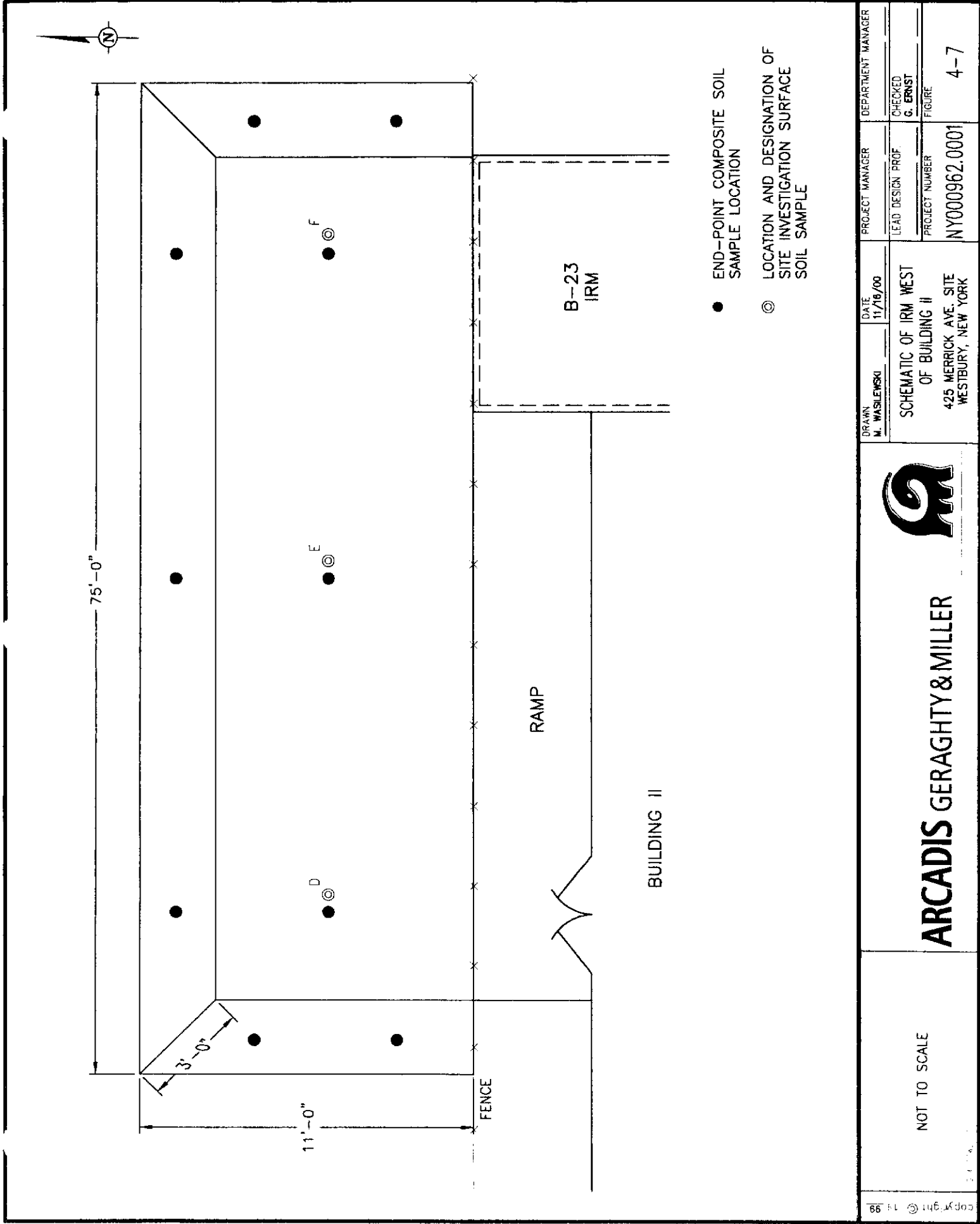
PROJECT NUMBER
NY000962.0001

FIGURE
4-5



- END-POINT COMPOSITE SOIL
SAMPLE LOCATION
- ⊙ LOCATION AND DESIGNATION OF
SITE INVESTIGATION SURFACE
SOIL SAMPLE

NOT TO SCALE		DRAWN M. WASLEWSKI		DATE 11/16/00	PROJECT MANAGER	DEPARTMENT MANAGER	
		SCHEMATIC OF SURFACE SOIL				LEAD DESIGN PROF.	CHECKED G. ERNST
		IRM EXCAVATION				PROJECT NUMBER	FIGURE
		425 MERRICK AVE. SITE WESTBURY, NEW YORK				NY000962.0001	4-6



NOT TO SCALE		DRAWN M. WASILEWSKI	DATE 11/16/00	PROJECT MANAGER	DEPARTMENT MANAGER
SCHEMATIC OF IRM WEST OF BUILDING II					
425 MERRICK AVE. SITE WESTBURY, NEW YORK					
PROJECT NUMBER NY000962.0001					
CHECKED C. ERNST					
FIGURE 4-7					

APPENDIX A

HISTORICAL DATA

Table 1. Concentrations of Polychlorinated Biphenyls Detected in Sediment, Sludge, and Soil Samples Collected in June and August 1991 from the 425 Merrick Avenue Site.

Constituent (Units in ug/kg)	Sample ID:	SD-1	SD-2	SD-3	GP-2
	Location:	Storm Drain 1	Storm Drain 2	Storm Drain 3	Grease Pit
	Sample Date:	6/7/91	6/7/91	6/7/91	6/7/91
	Consultant:	C.A. Rich	C.A. Rich	C.A. Rich	C.A. Rich
		Consultants, Inc.	Consultants, Inc.	Consultants, Inc.	Consultants, Inc.
Aroclor 1016		<320	<310	<360	<2600
Aroclor 1221		<320	<310	<360	<2600
Aroclor 1232		<320	<310	<360	<2600
Aroclor 1242		<320	<310	<360	<2600
Aroclor 1248		<320	<310	<360	<2600
Aroclor 1254		210 J	<615	2100	33000
Aroclor 1260		<532	<615	<716	<5200

J Estimated value.
 (4-6) Depth in feet below grade.
 ug/kg Micrograms per kilogram.

Constituent (Units in ug/kg)	Sample ID:	TP-1	TP-2	B-1(4 6)	B-2(10 12)
	Location:	Test Pit I	Test Pit VII	B 1	B 2
	Sample Date:	6/7/91	6/7/91	8/1/91	8/1/91
	Consultant:	C.A. Rich	C.A. Rich	C.A. Rich	C.A. Rich
		Consultants, Inc.	Consultants, Inc.	Consultants, Inc.	Consultants, Inc.
Aroclor 1016		<300	2000000	<340	<520
Aroclor 1221		<300	<220000	<340	<520
Aroclor 1232		<300	<220000	<340	<520
Aroclor 1242		<300	<220000	<340	<520
Aroclor 1248		<300	<220000	1920	<520
Aroclor 1254		<608	670000	<680	350 J
Aroclor 1260		<608	<440000	<680	<1040

J	Estimated value.
(4-6)	Depth in feet below grade.
ug/kg	Micrograms per kilogram.

Table 1. Concentrations of Polychlorinated Biphenyls Detected in Sediment, Sudge, and Soil Samples Collected in June and August 1991 from the 425 Merrick Avenue Site.

Constituent (Units in ug/kg)	Sample ID:	B-3(4-6)	B-4(14-16)	B-5(14-16)	B-6(9-11)
	Location:	B-3	B-4	B-5	B-6
	Sample Date:	8/1/91	8/2/91	8/2/91	8/2/91
	Consultant:	C.A. Rich	C.A. Rich	C.A. Rich	C.A. Rich
		Consultants, Inc.	Consultants, Inc.	Consultants, Inc.	Consultants, Inc.
Aroclor 1016		<90.0	<90.0	<90.0	<80.0
Aroclor 1221		<90.0	<90.0	<90.0	<80.0
Aroclor 1232		<90.0	<90.0	<90.0	<80.0
Aroclor 1242		<90.0	<90.0	<90.0	<80.0
Aroclor 1248		<90.0	<90.0	<90.0	<80.0
Aroclor 1254		<190.0	<180.0	<180.0	<170.0
Aroclor 1260		<190.0	<180.0	<180.0	<170.0

J Estimated value.
 (4-6) Depth in feet below grade.
 ug/kg Micrograms per kilogram.

Table 1. Concentrations of Polychlorinated Biphenyls Detected in Sediment, Sludge, and Soil Samples Collected in June and August 1991 from the 425 Merrick Avenue Site.

Constituent (Units in ug/kg)	Sample ID:	B-7(14-16)	B-8(4-6)	B-9(4-6)	B-10(9-11)
	Location:	B-7	B-8	B-9	B-10
	Sample Date:	8/2/91	8/2/91	8/8/91	8/8/91
	Consultant:	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.
Aroclor 1016		< 90.0	< 90.0	< 80.0	< 80.0
Aroclor 1221		< 90.0	< 90.0	< 80.0	< 80.0
Aroclor 1232		< 90.0	< 90.0	< 80.0	< 80.0
Aroclor 1242		< 90.0	< 90.0	< 80.0	< 80.0
Aroclor 1248		< 90.0	< 90.0	< 80.0	< 80.0
Aroclor 1254		< 180.0	< 170.0	< 160.0	< 170.0
Aroclor 1260		< 180.0	< 170.0	< 160.0	< 170.0

J Estimated value.
 (4-6) Depth in feet below grade.
 ug/kg Micrograms per kilogram.

Table 1. Concentrations of Polychlorinated Biphenyls Detected in Sediment, Sudge, and Soil Samples Collected in June and August 1991 from the 425 Merrick Avenue Site.

Constituent (Units in ug/kg)	Sample ID:	B-11(9-11)
	Location:	B-11
	Sample Date:	8/8/91
	Consultant:	C.A. Rich Consultants, Inc.
Aroclor 1016		< 80.0
Aroclor 1221		< 80.0
Aroclor 1232		< 80.0
Aroclor 1242		< 80.0
Aroclor 1248		< 80.0
Aroclor 1254		< 160.0
Aroclor 1260		< 160.0

J Estimated value.
(4-6) Depth in feet below grade.
ug/kg Micrograms per kilogram.

Table 2. Concentrations of Polychlorinated Biphenyls Detected in Liquid Waste and Groundwater Samples Collected in June 1991, August 1991, and October 1994 from the 425 Merrick Avenue Site.

Constituent (Units in ug/L)	Sample ID:	GP-1 *	HP-1	HP-2	HP-3
	Location:	Grease Pit	HP-1	HP-2	HP-3
	Sample Date:	6/7/91	8/1/91	8/1/91	8/2/91
	Consultant:	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.
Aroclor 1016		<6000	<0.50	<0.50	<0.50
Aroclor 1221		<6000	<0.50	<0.50	<0.50
Aroclor 1232		<6000	<0.50	<0.50	<0.50
Aroclor 1242		<6000	<0.50	<0.50	<0.50
Aroclor 1248		<6000	<0.50	<0.50	<0.50
Aroclor 1254		<12000	<1.0	<1.0	<1.0
Aroclor 1260		<12000	<1.0	<1.0	<1.0
* Liquid is reported in micrograms per kilogram.					

ug/L

Micrograms per liter.

Table 2. Concentrations of Polychlorinated Biphenyls Detected in Liquid Waste and Groundwater Samples Collected in June 1991, August 1991, and October 1994 from the 425 Merrick Avenue Site.

Constituent (Units in ug/L)	Sample ID:	HP-4	H-1	H-3	H-4
	Location:	HP-4	H-1	H-3	H-4
	Sample Date:	8/2/91	10/3/94	10/3/94	10/3/94
	Consultant:	C.A. Rich Consultants, Inc.	U.S. Hydrogeologic, Inc.	U.S. Hydrogeologic, Inc.	U.S. Hydrogeologic, Inc.
Aroclor 1016		<0.50	<0.50	<0.50	<0.50
Aroclor 1221		<0.50	<0.50	<0.50	<0.50
Aroclor 1232		<0.50	<0.50	<0.50	<0.50
Aroclor 1242		<0.50	<0.50	<0.50	<0.50
Aroclor 1248		<0.50	3.6	<0.50	<0.50
Aroclor 1254		<1.0	2.6	<0.50	<0.50
Aroclor 1260		<1.0	<0.50	<0.50	<0.50
* Liquid is reported in micrograms per kilogram.					

ug/L

Micrograms per liter.

Table 2. Concentrations of Polychlorinated Biphenyls Detected in Liquid Waste and Groundwater Samples Collected in June 1991, August 1991, and October 1994 from the 425 Merrick Avenue Site.

Constituent (Units in ug/L)	Sample ID:	H-5	Field Blank
	Location:	H-5	Field Blank
	Sample Date:	10/3/94	10/3/94
	Consultant:	U.S. Hydrogeologic, Inc.	U.S. Hydrogeologic, Inc.
Aroclor 1016		<0.50	<0.50
Aroclor 1221		<0.50	<0.50
Aroclor 1232		<0.50	<0.50
Aroclor 1242		<0.50	<0.50
Aroclor 1248		<0.50	<0.50
Aroclor 1254		<0.50	<0.50
Aroclor 1260		<0.50	<0.50
* Liquid is reported in micrograms per kilogram.			

ug/L Micrograms per liter.

Table 3. Concentrations of Polychlorinated Biphenyls Detected in Waste Oil and Soil Samples Collected in August 1992 from the 425 Merrick Avenue Site.

Constituent (Units in ug/kg)	Sample ID:	C-1	C-2 *	D-1
	Location:	Compressor	Compressor Oil	Pebble Bed Heater Pit
	Sample Date:	8/4/92	8/4/92	8/4/92
	Consultant:	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.
Aroclor 1016		<4000	<5	<200
Aroclor 1221		<4000	<5	<200
Aroclor 1232		<4000	<5	<200
Aroclor 1242		10000	<5	<200
Aroclor 1248		<4000	9	<200
Aroclor 1254		5000	13	1300
Aroclor 1260		<4000	<5	<200

ug/kg

Micrograms per kilogram.

*

Liquid sample units milligrams per liter.

Table 4. Concentrations of Total Petroleum Hydrocarbons Detected in Sediment, Sludge, and Soil Samples Collected in June and August 1991 from the 425 Merrick Avenue Site.

Constituent (Units in mg/kg)	Sample ID:	SD-1	SD 2	SD-3	GP-2	TP-1
	Location:	Storm Drain 1	Storm Drain 2	Storm Drain 3	Grease Pit	Test Pit 1
	Sample Date:	6/7/91	6/7/91	6/7/91	6/7/91	6/7/91
	Consultant:	C.A. Rich	C.A. Rich	C.A. Rich	C.A. Rich	C.A. Rich
		Consultants, Inc.	Consultants, Inc.	Consultants, Inc.	Consultants, Inc.	Consultants, Inc.
Total Petroleum Hydrocarbons		7880	1520	60300	103000	18600

mg/kg Micrograms per liter.
(4-6) Depth in feet below grade.

Table 4. Concentrations of Total Petroleum Hydrocarbons Detected in Sediment, Sludge, and Soil Samples Collected in June and August 1991 from the 425 Merrick Avenue Site.

Constituent (Units in mg/kg)	Sample ID:	TP-2	B-1(4-6)	B-2(10-12)	B-3(4-6)	B-4(14-16)
	Location:	Test Pit VII	B-1	B-2	B-3	B-4
	Sample Date:	6/7/91	8/1/91	8/1/91	8/1/91	8/2/91
	Consultant:	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.
Total Petroleum Hydrocarbons		82500	744	4540	46.4	<10.0

mg/kg Micrograms per liter.
(4-6) Depth in feet below grade.

Table 4. Concentrations of Total Petroleum Hydrocarbons Detected in Sediment, Sludge, and Soil Samples Collected in June and August 1991 from the 425 Merrick Avenue Site.

Constituent (Units in mg/kg)	Sample ID:	B 5(14-16)	B 6(9-11)	B 7(14-16)	B 8(4-6)	B 9(4-6)
	Location:	B 5	B 6	B 7	B 8	B 9
	Sample Date:	8/2/91	8/2/91	8/2/91	8/2/91	8/8/91
	Consultant:	C.A. Rich	C.A. Rich	C.A. Rich	C.A. Rich	C.A. Rich
		Consultants, Inc.	Consultants, Inc.	Consultants, Inc.	Consultants, Inc.	Consultants, Inc.
Total Petroleum Hydrocarbons		261	< 10.0	< 10.0	128	799

mg/kg Micrograms per liter.
(4-6) Depth in feet below grade.

Table 4. Concentrations of Total Petroleum Hydrocarbons Detected in Sediment, Sludge, and Soil Samples Collected in June and August 1991 from the 425 Merrick Avenue Site.

Constituent (Units in mg/kg)	Sample ID:	B 10(9-11)	B-11(9-11)
	Location:	B-10	B-11
	Sample Date:	8/8/91	8/8/91
	Consultant:	C.A. Rich	C.A. Rich
		Consultants, Inc.	Consultants, Inc.
Total Petroleum Hydrocarbons		< 10.0	< 10.0

mg/kg Micrograms per liter.
(4-6) Depth in feet below grade.

Table 5. Concentrations of Total Petroleum Hydrocarbons Detected in Liquid Waste and Groundwater Samples Collected in June 1991, August 1991 and October 1994 from the 425 Merrick Avenue Site.

Constituent (Units in mg/L)	Sample Id:	GP-1	HP-1	HP-2	HP-3	HP-4
	Location:	Grease Pit	HP-1	HP-2	HP-3	HP-4
	Sample Date:	6/7/91	8/1/91	8/1/91	8/2/91	8/2/91
	Consultant:	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.	C.A. Rich Consultants, Inc.
Total Petroleum Hydrocarbons		661	10.5	5.2	< 1.0	< 1.0

mg/L Milligrams per liter.

Table 5. Concentrations of Total Petroleum Hydrocarbons Detected in Liquid Waste and Groundwater Samples Collected in June 1991, August 1991 and October 1994 from the 425 Merrick Avenue Site.

Constituent (Units in mg/L)	Sample Id:	H-1	H-3	H-4	H-5
	Location:	H-1	H-3	H-4	H-5
	Sample Date:	10/3/94	10/3/94	10/3/94	10/3/94
	Consultant:	U.S. Hydrogeologic, Inc.	U.S. Hydrogeologic, Inc.	U.S. Hydrogeologic, Inc.	U.S. Hydrogeologic, Inc.
Total Petroleum Hydrocarbons		<100	<100	<100	<100

mg/L Milligrams per liter.

Table 5. Concentrations of Total Petroleum Hydrocarbons Detected in Liquid Waste and Groundwater Samples Collected in June 1991, August 1991 and October 1994 from the 425 Merrick Avenue Site.

Constituent (Units in mg/L)	Sample Id:	Field Blank
	Location:	Field Blank
	Sample Date:	10/3/94
	Consultant:	U.S. Hydrogeologic, Inc.
Total Petroleum Hydrocarbons		< 100

mg/L Milligrams per liter.

Table 6. Concentrations of Polyaromatic Hydrocarbons (PAHs) Detected in Soil Samples Collected in June 1991 from the 425 Merrick Avenue Site.

Constituent (Units in ug/kg)	Sample ID:	TP-1	TP-2
	Location:	Test Pit I	Test Pit VII
	Sample Date:	6/7/91	6/7/91
	Consultant:	C.A. Rich	C.A. Rich
		Consultants, Inc.	Consultants, Inc.
Naphthalene		60000	<2300
Acenaphthylene		<2100	<2300
Anthracene		1300 J	<2300
Fluorene		1800 J	<2300
Phenanthrene		1200 J	470 J
Acenaphthene		190 J	<2300
Fluoranthene		<2100	<2300
Pyrene		<2100	66 J
Benzo(a)anthracene		<2100	<2300
Chrysene		<2100	<2300
Benzo(b)fluoranthene		<2100	<2300
Benzo(k)fluoranthene		<2100	<2300
Benzo(a)pyrene		<2100	<2300
Indeno(1,2,3-cd)pyrene		<2100	<2300
Dibenz(a,h)anthracene		<2100	<2300
Benzo(g,h,i)perylene		<2100	<2300

ug/kg Micrograms per kilogram.
J Estimated value.

CERAMITE MATTER

Table 7. Concentrations of Polyaromatic Hydrocarbons (PAHs) Detected in Groundwater Samples Collected in October 1994 from the 425 Merrick Avenue Site.

Constituent (Units in ug/L)	Sample ID:	H-1	H-3	H-4	H-5	Field Blank
	Sample Date:	10/3/94	10/3/94	10/3/94	10/3/94	10/3/94
	Consultant:	U.S.	U.S.	U.S.	U.S.	U.S.
		Hydrogeologic, Inc.	Hydrogeologic, Inc.	Hydrogeologic, Inc.	Hydrogeologic, Inc.	Hydrogeologic, Inc.
Naphthalene		<10	<12	<12	<12	<12
Acenaphthylene		<10	<12	<12	<12	<12
Acenaphthene		<10	<12	<12	<12	<12
Fluorene		<10	<12	<12	<12	<12
Phenanthrene		1 J	<12	<12	<12	<12
Anthracene		<10	<12	<12	<12	<12
Fluoranthene		<10	<12	<12	<12	<12
Pyrene		<10	<12	<12	<12	<12
Benzo(a)anthracene		<10	<12	<12	<12	<12
Chrysene		<10	<12	<12	<12	<12
Benzo(b)fluorathene		<10	<12	<12	<12	<12
Benzo(k)fluorathene		<10	<12	<12	<12	<12
Benzo(a)pyrene		<10	<12	<12	<12	<12
Indeno(1,2,3-cd)pyrene		<10	<12	<12	<12	<12
Dibenz(a,h)anthracene		<10	<12	<12	<12	<12
Benzo(g,h,i)perylene		<10	<12	<12	<12	<12

ug/L Micrograms per liter.
J Estimated value.

Table 8. Concentrations of Volatile Organic Compounds Detected in Sediment, Sludge, and Soil Samples Collected in June and August 1991 from the 425 Merrick Avenue Site.

	Sample ID:	SD-1	SD-2	SD-3	GP 2
	Location:	Storm Drain 1	Storm Drain 2	Storm Drain 3	Grease Pit
	Sample Date:	6/7/91	6/7/91	6/7/91	6/7/91
	Consultant:	C.A. Rich	C.A. Rich	C.A. Rich	C.A. Rich
(Units in ug/kg)		Consultants, Inc.	Consultants, Inc.	Consultants, Inc.	Consultants, Inc.
Bromodichloromethane		<1.0	<1.0	<1.0	<1.0
Bromoform		<1.0	<1.0	<1.0	<1.0
Bromomethane		<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride		<1.0	<1.0	<1.0	<1.0
Chlorobenzene		<1.0	<1.0	<1.0	<1.0
Chloroethane		<1.0	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether		<1.0	<1.0	<1.0	<1.0
Chloroform		<1.0	<1.0	<1.0	<1.0
Chloromethane		<1.0	<1.0	<1.0	<1.0
Dibromochloromethane		<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene		84	<1.0	1500	270
1,3-Dichlorobenzene		30	<1.0	87	11
1,4-Dichlorobenzene		36	<1.0	420	45
1,1-Dichloroethane		<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane		<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene		<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene		<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane		<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0
Methylene chloride		3	23	23	33
1,1,2,2-Tetrachloroethane		<1.0	<1.0	<1.0	<1.0
Tetrachloroethene		<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane		<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane		<1.0	<1.0	<1.0	<1.0
Trichloroethene		<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane		<1.0	<1.0	<1.0	<1.0
Vinyl chloride		<1.0	<1.0	<1.0	<1.0
Benzene		<1.0	<1.0	23	1
Toluene		<1.0	<1.0	9	<1.0
Ethylbenzene		<1.0	<1.0	160	16
Total Xylenes		<1.0	<1.0	740	46

ug/kg Micrograms per kilogram.

(4-6) Sample depth in feet below grade.

Table 8. Concentrations of Volatile Organic Compounds Detected in Sediment, Sludge, and Soil Samples Collected in June and August 1991 from the 425 Merrick Avenue Site.

	Sample ID:	TP-1	TP-2	B-1(4-6)	B-2(10-12)
	Location:	Test Pit I	Test Pit V.I	B-1	B-2
	Sample Date:	6/7/91	6/7/91	8/1/91	8/1/91
	Consultant:	C.A. Rich	C.A. Rich	C.A. Rich	C.A. Rich
(Units in ug/kg)		Consultants, Inc.	Consultants, Inc.	Consultants, Inc.	Consultants, Inc.
Bromodichloromethane		<1.0	<1.0	<1.0	<1.0
Bromoform		<1.0	<1.0	<1.0	<1.0
Bromomethane		<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride		<1.0	<1.0	<1.0	<1.0
Chlorobenzene		<1.0	<1.0	<1.0	14
Chloroethane		<1.0	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether		<1.0	<1.0	<1.0	<1.0
Chloroform		<1.0	<1.0	<1.0	<1.0
Chloromethane		<1.0	<1.0	<1.0	<1.0
Dibromochloromethane		<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene		88	1900	<1.0	140
1,3-Dichlorobenzene		16	1000	<1.0	650
1,4-Dichlorobenzene		21	270	<1.0	780
1,1-Dichloroethane		<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane		<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene		<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene		<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane		<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0
Methylene chloride		28	30	<1.0	<1.0
1,1,2,2-Tetrachloroethane		<1.0	<1.0	<1.0	<1.0
Tetrachloroethene		14	<1.0	<1.0	<1.0
1,1,1-Trichloroethane		<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane		<1.0	<1.0	<1.0	<1.0
Trichloroethene		<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane		<1.0	<1.0	<1.0	<1.0
Vinyl chloride		<1.0	<1.0	<1.0	<1.0
Benzene		<1.0	<1.0	<1.0	<1.0
Toluene		3	13	<1.0	<1.0
Ethylbenzene		<1.0	72	<1.0	<1.0
Total Xylenes		6	310	<1.0	<1.0

ug/kg Micrograms per kilogram.

(4-6) Sample depth in feet below grade

Table 8. Concentrations of Volatile Organic Compounds Detected in Sediment, Sludge, and Soil Samples Collected in June and August 1991 from the 425 Merrick Avenue Site.

	Sample ID:	B-3(4-6)	B-4(14-16)	B-5(14-16)	B-6(9-11)
	Location:	B-3	B-4	B-5	B-6
	Sample Date:	8/1/91	8/2/91	8/2/91	8/2/91
	Consultant:	C.A. Rich	C.A. Rich	C.A. Rich	C.A. Rich
(Units in ug/kg)		Consultants, Inc.	Consultants, Inc.	Consultants, Inc.	Consultants, Inc.
Bromodichloromethane		<1.0	<1.0	<1.0	<1.0
Bromoform		<1.0	<1.0	<1.0	<1.0
Bromomethane		<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride		<1.0	<1.0	<1.0	<1.0
Chlorobenzene		<1.0	<1.0	<1.0	<1.0
Chloroethane		<1.0	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether		<1.0	<1.0	<1.0	<1.0
Chloroform		<1.0	<1.0	<1.0	<1.0
Chloromethane		<1.0	<1.0	<1.0	<1.0
Dibromochloromethane		<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene		<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene		<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene		<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane		<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane		<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene		<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene		<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane		<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0
Methylene chloride		<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane		<1.0	<1.0	<1.0	<1.0
Tetrachloroethene		<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane		<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane		<1.0	<1.0	<1.0	<1.0
Trichloroethene		<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane		<1.0	<1.0	<1.0	<1.0
Vinyl chloride		<1.0	<1.0	<1.0	<1.0
Benzene		<1.0	<1.0	<1.0	<1.0
Toluene		<1.0	<1.0	<1.0	<1.0
Ethylbenzene		<1.0	<1.0	<1.0	<1.0
Total Xylenes		<1.0	<1.0	<1.0	<1.0

ug/kg Micrograms per kilogram.

(4-6) Sample depth in feet below grade

Table 8. Concentrations of Volatile Organic Compounds Detected in Sediment, Sludge, and Soil Samples Collected in June and August 1991 from the 425 Merrick Avenue Site.

	Sample ID:	B-7(14-16)	B-8(4-6)	B-9(4-6)	B-10(9-11)
	Location:	B-7	B-8	B-9	B-10
	Sample Date:	8/2/91	8/2/91	8/8/91	8/8/91
	Consultant:	C.A. Rich	C.A. Rich	C.A. Rich	C.A. Rich
(Units in ug/kg)		Consultants, Inc.	Consultants, Inc.	Consultants, Inc.	Consultants, Inc.
Bromodichloromethane		< 1.0	< 1.0	< 1.0	< 1.0
Bromoform		< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane		< 1.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride		< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene		< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane		< 1.0	< 1.0	< 1.0	< 1.0
2-Chloroethylvinyl ether		< 1.0	< 1.0	< 1.0	< 1.0
Chloroform		< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane		< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane		< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene		< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene		< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene		< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane		< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane		< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene		< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene		< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane		< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene		< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene		< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride		< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane		< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene		< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane		< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane		< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene		< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane		< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride		< 1.0	< 1.0	< 1.0	< 1.0
Benzene		< 1.0	< 1.0	< 1.0	< 1.0
Toluene		< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes		< 1.0	< 1.0	< 1.0	< 1.0

ug/kg Micrograms per kilogram.

(4-6) Sample depth in feet below grade.

Table 8. Concentrations of Volatile Organic Compounds Detected in Sediment, Sludge, and Soil Samples Collected in June and August 1991 from the 425 Merrick Avenue Site.

	Sample ID:	B-11(9-11)
	Location:	B-11
	Sample Date:	8/8/91
(Units in ug/kg)	Consultant:	C.A. Rich Consultants, Inc.
Bromodichloromethane		< 1.0
Bromoform		< 1.0
Bromomethane		< 1.0
Carbon tetrachloride		< 1.0
Chlorobenzene		< 1.0
Chloroethane		< 1.0
2-Chloroethylvinyl ether		< 1.0
Chloroform		< 1.0
Chloromethane		< 1.0
Dibromochloromethane		< 1.0
1,2-Dichlorobenzene		< 1.0
1,3-Dichlorobenzene		< 1.0
1,4-Dichlorobenzene		< 1.0
1,1-Dichloroethane		< 1.0
1,2-Dichloroethane		< 1.0
1,1-Dichloroethene		< 1.0
trans-1,2-Dichloroethene		< 1.0
1,2-Dichloropropane		< 1.0
cis-1,3-Dichloropropene		< 1.0
trans-1,3-Dichloropropene		< 1.0
Methylene chloride		< 1.0
1,1,1,2-Tetrachloroethane		< 1.0
Tetrachloroethene		< 1.0
1,1,1-Trichloroethane		< 1.0
1,1,2-Trichloroethane		< 1.0
Trichloroethene		< 1.0
Trichlorofluoromethane		< 1.0
Vinyl chloride		< 1.0
Benzene		< 1.0
Toluene		< 1.0
Ethylbenzene		< 1.0
Total Xylenes		< 1.0

ug/kg Micrograms per kilogram.

(4-6) Sample depth in feet below grade

Table 9. Concentrations of Volatile Organic Compounds Detected in Liquid Waste and Groundwater Samples Collected in June 1991 August 1991 and October 1994 from the 425 Merrick Avenue Site.

Constituent (Units in ug/L)	Sample ID: Location: Sample Date: Consultant:	GP-1 Grease Pit 6/7/91 C.A. Rich Consultants, Inc.	HP-1 HP-1 8/1/91 C.A. Rich Consultants, Inc.	HP-2 HP-2 8/1/91 C.A. Rich Consultants, Inc.	HP-3 HP-3 8/2/91 C.A. Rich Consultants, Inc.
Chloromethane		<5.0	<1.0	<1.0	<1.0
Bromomethane		<5.0	<1.0	<1.0	<1.0
Vinyl chloride		<5.0	<1.0	<1.0	<1.0
Chloroethane		<5.0	<1.0	<1.0	<1.0
Methylene chloride		9 B	<1.0	<1.0	<1.0
Acetone		--	--	--	--
Carbon disulfide		--	--	--	--
1,1-Dichloroethene		<5.0	<1.0	<1.0	<1.0
1,1-Dichloroethane		<5.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene		<5.0	<1.0	<1.0	<1.0
Chloroform		<5.0	<1.0	<1.0	<1.0
1,2-Dichloroethane		<5.0	<1.0	<1.0	<1.0
2-Butanone		--	--	--	--
1,1,1-Trichloroethane		<5.0	<1.0	<1.0	<1.0
Carbon tetrachloride		<5.0	<1.0	<1.0	<1.0
Vinyl acetate		--	--	--	--
Bromodichloromethane		<5.0	<1.0	<1.0	<1.0
1,2-Dichloropropane		<5.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene		<5.0	<1.0	<1.0	<1.0
Trichloroethene		<5.0	<1.0	<1.0	<1.0
Dibromochloromethane		<5.0	<1.0	<1.0	<1.0
2-Chloroethyl vinyl ether		<5.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane		<5.0	<1.0	<1.0	<1.0
Benzene		<5.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene		<5.0	<1.0	<1.0	<1.0
Bromoform		<5.0	<1.0	<1.0	<1.0
2-Hexanone		--	--	--	--
4-Methyl-2-pentanone		--	--	--	--
Tetrachloroethene		<5.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane		<5.0	<1.0	<1.0	<1.0
Toluene		2 J	<1.0	<1.0	32
Chlorobenzene		<5.0	<1.0	<1.0	<1.0
Ethylbenzene		<5.0	<1.0	<1.0	16
Styrene		--	--	--	--
meta- + para-Xylenes		--	--	--	--
ortho-Xylene		--	--	--	--
Total Xylenes		<5.0	<1.0	<1.0	57
1,2-Dichlorobenzene		110	<1.0	<1.0	<1.0
1,3-Dichlorobenzene		<5.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene		<5.0	<1.0	<1.0	<1.0
Trichlorofluoromethane		<5.0	<1.0	<1.0	<1.0

ug/L Micrograms per liter.

-- Not analyzed.

J Estimated value.

B Compound detected in method blank.

Table 9. Concentrations of Volatile Organic Compounds Detected in Liquid Waste and Groundwater Samples Collected in June 1991 August 1991 and October 1994 from the 425 Merrick Avenue Site.

Constituent (Units in ug/L)	Sample ID: Location: Sample Date: Consultant:	HP-4 HP 4 8/2/91 C.A. Rich	H-1 H-1 10/3/94 U.S.	H-3 H 3 10/3/94 U.S.	H 4 H-4 10/3/94 U.S.
		Consultants, Inc.	Hydrogeologic, Inc.	Hydrogeologic, Inc.	Hydrogeologic, Inc.
Chloromethane		< 1.0	< 10	< 10	< 10
Bromomethane		< 1.0	< 10	< 10	< 10
Vinyl chloride		< 1.0	< 10	< 10	< 10
Chloroethane		< 1.0	< 10	< 10	< 10
Methylene chloride		< 1.0	4 J	3 J	4 J
Acetone		--	< 10	< 10	< 10
Carbon disulfide		--	< 5	< 5	< 5
1,1-Dichloroethene		< 1.0	< 5	< 5	< 5
1,1-Dichloroethane		< 1.0	< 5	< 5	< 5
trans 1,2-Dichloroethene		< 1.0	< 5	< 5	< 5
Chloroform		< 1.0	< 5	< 5	< 5
1,2-Dichloroethane		< 1.0	< 5	< 5	< 5
2-Butanone		--	< 10	< 10	< 10
1,1,1-Trichloroethane		< 1.0	< 5	< 5	< 5
Carbon tetrachloride		< 1.0	< 5	< 5	< 5
Vinyl acetate		--	< 10	< 10	< 10
Bromodichloromethane		< 1.0	< 5	< 5	< 5
1,2-Dichloropropane		< 1.0	< 5	< 5	< 5
cis-1,3-Dichloropropene		< 1.0	< 5	< 5	< 5
Trichloroethene		< 1.0	< 5	< 5	< 5
Dibromochloromethane		< 1.0	< 5	< 5	< 5
2-Chloroethyl vinyl ether		< 1.0	< 5	< 5	< 5
1,1,2-Trichloroethane		< 1.0	< 5	< 5	< 5
Benzene		< 1.0	< 5	< 5	< 5
trans 1,3-Dichloropropene		< 1.0	< 5	< 5	< 5
Bromotorm		< 1.0	< 5	< 5	< 5
2-Hexanone			< 10	< 10	< 10
4-Methyl-2-pentanone			< 10	< 10	< 10
Tetrachloroethene		< 1.0	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane		< 1.0	< 5	< 5	< 5
Toluene		< 1.0	< 5	< 5	< 5
Chlorobenzene		< 1.0	< 5	< 5	< 5
Ethylbenzene		< 1.0	< 5	< 5	< 5
Styrene		--	< 5	< 5	< 5
meta + para Xylenes			< 5	1 J	< 5
ortho-Xylene			< 5	< 5	< 5
Total Xylenes		< 1.0	--	--	--
1,2-Dichlorobenzene		< 1.0			
1,3-Dichlorobenzene		< 1.0			
1,4-Dichlorobenzene		< 1.0	--		
Trichloromethane		< 1.0	--		

ug/l Micrograms per liter.

-- Not analyzed.

J Estimated value.

B Compound detected in method blank.

Table 9. Concentrations of Volatile Organic Compounds Detected in Liquid Waste and Groundwater Samples Collected in June 1991 August 1991 and October 1994 from the 425 Merrick Avenue Site.

Constituent (Units in ug/L)	Sample ID: Location: Sample Date: Consultant:	H-5 H-5 10/3/94 U.S. Hydrogeologic, Inc.	Field Blank 10/3/94 U.S. Hydrogeologic, Inc.	Trip Blank 10/3/94 U.S. Hydrogeologic, Inc.
Chloromethane		<10	<10	<10
Bromomethane		<10	<10	<10
Vinyl chloride		<10	<10	<10
Chloroethane		<10	<10	<10
Methylene chloride		<5	<5	3 JB
Acetone		<10	<10	<10
Carbon disulfide		<5	<5	<5
1,1-Dichloroethene		<5	<5	<5
1,1-Dichloroethane		<5	<5	<5
trans-1,2-Dichloroethene		<5	<5	<5
Chloroform		<5	<5	<5
1,2-Dichloroethane		<5	<5	<5
2-Butanone		<10	<10	<10
1,1,1-Trichloroethane		<5	<5	<5
Carbon tetrachloride		<5	<5	<5
Vinyl acetate		<10	<10	<10
Bromodichloromethane		<5	<5	<5
1,2-Dichloropropane		<5	<5	<5
cis-1,3-Dichloropropene		<5	<5	<5
Trichloroethene		<5	<5	<5
Dibromochloromethane		<5	<5	<5
2-Chloroethyl vinyl ether		<5	<5	<5
1,1,2-Trichloroethane		<5	<5	<5
Benzene		<5	<5	<5
trans-1,3-Dichloropropene		<5	<5	<5
Bromoform		<5	<5	<5
2-Hexanone		<10	<10	<10
4-Methyl 2-pentanone		<10	<10	<10
Tetrachloroethene		<5	<5	<5
1,1,2,2-Tetrachloroethane		<5	<5	<5
Toluene		<5	<5	<5
Chlorobenzene		<5	<5	<5
Ethylbenzene		<5	<5	<5
Styrene		<5	<5	<5
meta- + para-Xylenes		<5	<5	<5
ortho-Xylene		<5	<5	<5
Total Xylenes		--		
1,2-Dichlorobenzene		--		
1,3-Dichlorobenzene		--		
1,4-Dichlorobenzene		--		
Trichlorofluoromethane		--		

ug/L Micrograms per liter.
 - Not analyzed.
 J Estimated value.
 B Compound detected in method blank.

Table 10. Concentrations of Metals Detected in Soil Samples Collected in August 1991 from the 425 Merrick Avenue Site.

Constituent (Units in mg/kg)	Sample ID:	B-1(4-6)	B-2(10-12)	B-3(4-6)	B-4(14-16)
	Sample Date:	8/1/91	8/1/91	8/1/91	8/2/91
	Consultant:	C.A. Rich	C.A. Rich	C.A. Rich	C.A. Rich
		Consultants, Inc.	Consultants, Inc.	Consultants, Inc.	Consultants, Inc.
Arsenic		<5.0	<5.0	<5.0	<5.0
Barium		<10.0	37.9	<10.0	<10.0
Cadmium		<1.0	<1.0	<1.0	<1.0
Chromium		8.71	50.9	<5.0	7.13
Lead		30.5	34.9	<5.0	<5.0
Mercury		<0.1	1.35	<0.1	<0.1
Selenium		<1.0	<1.0	<1.0	<1.0
Silver		<5.0	<5.0	<5.0	<5.0

mg/kg Milligrams per kilogram.

(4-6) Sample depth in feet below grade.

Table 10. Concentrations of Metals Detected in Soil Samples Collected in August 1991 from the 425 Merrick Avenue Site.

Constituent (Units in mg/kg)	Sample ID:	B 5(14-16)	B 6(9-11)	B-7(14-16)	B-8(4-6)
	Sample Date:	8/2/91	8/2/91	8/2/91	8/2/91
	Consultant:	C.A. Rich	C.A. Rich	C.A. Rich	C.A. Rich
		Consultants, Inc.	Consultants, Inc.	Consultants, Inc.	Consultants, Inc.
Arsenic		<5.0	<5.0	<5.0	<5.0
Barium		<10.0	<10.0	<10.0	14.8
Cadmium		<1.0	<1.0	<1.0	<1.0
Chromium		7.68	<5.0	<5.0	5.9
Lead		<5.0	<5.0	<5.0	15.9
Mercury		<0.1	<0.1	<0.1	<0.1
Selenium		<1.0	<1.0	<1.0	<1.0
Silver		<5.0	<5.0	<5.0	<5.0

mg/kg Milligrams per kilogram.

(4-6) Sample depth in feet below grade.

Table 10. Concentrations of Metals Detected in Soil Samples Collected in August 1991 from the 425 Merrick Avenue Site.

Constituent (Units in mg/kg)	Sample ID:	B-9(4-6)	B-10(9-11)	B-11(9-11)
	Sample Date:	8/8/91	8/8/91	8/8/91
	Consultant:	C.A. Rich	C.A. Rich	C.A. Rich
		Consultants, Inc.	Consultants, Inc.	Consultants, Inc.
Arsenic		< 2.0	< 2.0	< 2.0
Barium		18.1	< 10.0	< 10.0
Cadmium		< 1.0	< 1.0	< 1.0
Chromium		< 5.0	< 5.0	< 5.0
Lead		15.6	< 5.0	< 5.0
Mercury		< 0.10	< 0.10	< 0.10
Selenium		< 1.0	< 1.0	< 1.0
Silver		< 5.0	< 5.0	< 5.0

mg/kg Milligrams per kilogram.

(4-6) Sample depth in feet below grade.

Table 11. Concentrations of Metals Detected in Groundwater Samples Collected in August 1991 and October 1994 from the 425 Merrick Avenue Site.

Constituent (Units in ug/L)	Sample ID: Sample Date: Consultant: C.A. Rich Consultants, Inc.	HP-1 8/1/91 C.A. Rich Consultants, Inc.	HP-2 8/1/91 C.A. Rich Consultants, Inc.	HP-3 8/2/91 C.A. Rich Consultants, Inc.	HP-4 8/2/91 C.A. Rich Consultants, Inc.
Antimony	--	--	--	--	--
Arsenic	< 10	< 10	< 10	< 10	< 10
Barium	314	< 200	< 200	< 200	< 200
Beryllium	--	--	--	--	--
Cadmium	< 10	< 10	< 10	< 10	< 10
Chromium	210	16	< 10	< 10	< 10
Copper	--	--	--	--	--
Lead	266	< 50	< 50	< 50	< 50
Mercury	1.8	< 0.2	< 0.2	< 0.2	< 0.2
Nickel	--	--	--	--	--
Selenium	< 10	< 10	< 10	< 10	< 10
Silver	< 10	< 10	< 10	< 10	< 10
Thallium	--	--	--	--	--
Zinc	--	--	--	--	--

ug/L Micrograms per liter.
 ND Not detected.
 -- Not analyzed.

Table 11. Concentrations of Metals Detected in Groundwater Samples Collected in August 1991 and October 1994 from the 425 Merrick Avenue Site.

Constituent (Units in ug/L)	Sample ID:	H-1	H-3	H-4	H-5
	Sample Date:	10/3/94	10/3/94	10/3/94	10/3/94
	Consultant:	U.S.	U.S.	U.S.	U.S.
		Hydrogeologic, Inc.	Hydrogeologic, Inc.	Hydrogeologic, Inc.	Hydrogeologic, Inc.
Antimony		< 40	< 40	< 40	< 40
Arsenic		< 10	< 10	< 10	< 10
Barium		--	--	--	--
Beryllium		< 5.0	< 5.0	< 5.0	< 5.0
Cadmium		< 5.0	< 5.0	< 5.0	< 5.0
Chromium		< 10	< 10	< 10	< 10
Copper		< 25	170	< 25	< 25
Lead		4.6	< 3.0	< 3.0	5.9
Mercury		< 0.50	< 0.50	1.2	< 0.50
Nickel		< 20	< 20	< 20	28
Selenium		< 5.0	< 5.0	< 5.0	< 5.0
Silver		< 5.0	< 5.0	< 5.0	< 5.0
Thallium		< 5.0	< 5.0	< 5.0	< 5.0
Zinc		140	44	42	24

ug/L Micrograms per liter.
 ND Not detected.
 Not analyzed.

Table 11. Concentrations of Metals Detected in Groundwater Samples Collected in August 1991 and October 1994 from the 425 Merrick Avenue Site.

Constituent (Units in ug/L)	Sample ID: Sample Date: Consultant: Hydrogeologic, Inc.
	Field Blank 10/3/94 U.S.
Antimony	< 40
Arsenic	< 10
Barium	--
Beryllium	< 5.0
Cadmium	< 5.0
Chromium	< 10
Copper	< 25
Lead	< 3.0
Mercury	< 0.50
Nickel	< 20
Selenium	< 5.0
Silver	< 5.0
Thallium	< 5.0
Zinc	54

ug/L Micrograms per liter.
 ND Not detected.
 -- Not analyzed.

APPENDIX B
CITIZEN PARTICIPATION PLAN

The Citizen Participation Plan (CPP) outlines the process of citizen participation in the Site investigation and IRM activities at the site located at 425 Merrick Avenue. The purpose of this process is to involve such interested and affected parties as community, County, State, and Federal public officials, commercial interests, and public interest groups in the remedial decision-making process. This CPP was prepared in accordance with the New York State Inactive Hazardous Waste Site Citizen Participation Plan (August 1989), prepared by the NYSDDEC.

Basic Site Information

Prior to 1936, the site located at 425 Merrick Avenue was reportedly the location of a country club. Since 1936 the site has been occupied by a number of companies and organizations using the facilities for various laboratory and R&D activities for the telecommunications, aerospace, aeronautical, and energy industries. The site is located in a commercialized area of Westbury, New York and is bounded by commercial office buildings to the north and south, Eisenhower Park to the east, and the Meadowbrook Parkway to the west (see Figure 1-1 of the Site investigation and IRM Work Plan).

Currently, one main building is located in the central portion of the property, and several smaller buildings and substructures are located around the main building. A 40-ft diameter vacuum sphere is located on the southern portion of the property, just southwest of the main building. The site layout and building designations are shown on Figure 1-2 of the Site investigation and IRM Work Plan.

One active supply well is located in the central portion of the property and two older supply wells are reportedly located in the southwestern portion of the basement of the main building. The location and operational status of the two interior wells and the operational status of the on-site supply well is unknown at this time. No public water lines or mains extend to the existing buildings. An approximately 15,000-gallon aboveground fuel oil storage tank (AST) for on-site heating is housed in a sub-grade vault at the south side of the main building. A review of the Town of Hempstead building permits indicated a 275-gallon AST was installed, however, this tank is no longer present at the site. Electricity is provided to the site by the Long Island Lighting Company (LILCO), but is currently shut off. Transformers supplied and maintained by LILCO were formerly located in the southern portion of the property. Geraghty & Miller has been informed that during periods of full-scale operations at the site, power to certain processes was supplemented by on-site power stations/transformers located in Shed VIII, building III and Shed I under the 40-foot diameter vacuum sphere. Prior to August 1979, the site waste lines discharged to an on-site septic system, which, based on historical site maps, is located along the

northern portion of the property and west of the main building. The site was connected to the sanitary sewers in August 1979.

Generally, stormwater runoff flows offsite via underground storm drains. Two active public supply wells (N-9846 and N-7957) of the Town of Hempstead Water District, one inactive public supply well (N-6046), one domestic well, and 16 industrial wells are located within approximately 1 mile of the site (see Figure 2-3 of the IRM Work Plan). The three public supply wells and the domestic well are located hydraulically upgradient of the site. Two wells, N-9030 and N-6726, are located hydraulically downgradient of the site. Well N-9030 is a dewatering well installed by the Nassau County Veterans Memorial Coliseum. This well was initially installed during construction of an underground parking garage and is still pumped to a nearby recharge basin to dewater this area. From the records reviewed by Geraghty & Miller, it appears that this well is used for dewatering purposes only and is operable only at times of high water levels. Well N-6726 is located at the Nassau County Historical Museum located in Eisenhower Park and appears to be inoperable at this time. No information regarding water quality for these wells was available from the NYSDEC. Water quality information for the two active supply wells was available from the Town of Hempstead Water District and is discussed in Section 2.5.3 (Town of Hempstead Water District Freedom of Information Act Review) of the IRM Work Plan.

Project Description

The objective of implementing the Site Investigations, IRMs and additional soil and groundwater sampling in previously identified areas of concern and potential additional areas of concern is to eliminate on-site sources of contamination so that the site can be considered for reclassification or delisting by the NYSDEC.

The objectives of the Site investigation and IRMs are to:

- Remediate any impacted soils in the vicinity of (1) Test Pit VII, (2) the grease pits, and (3) sediments within Storm Drain 3.

The objectives of additional soil and groundwater sampling activities are to:

- Evaluate soil quality and remediate soil conditions if necessary, in the vicinity of Storm Drains SD-4 and SD-5, the current transformers, the two former septic systems, the existing dry well located in the southern portion of the site and in the vicinity of the northeastern portion of the site.

- Further evaluate soil quality in the vicinity of seven test pits previously excavated and seven soil sample locations exhibiting elevated concentrations of petroleum hydrocarbons (TPH) collected during investigations conducted by CA Rich Associates, and remediate soil conditions, if necessary.
- Further evaluate ground-water quality at the site, by installing and sampling three monitoring wells in conjunction with sampling existing on-site supply wells.

The field investigation is expected to be completed in approximately 5 months. At the completion of the field investigation, a document will be presented to the NYSDEC that presents the detailed investigative activities and the process to select a remedial action plan. It will be available for public review at the East Meadow Public Library.

Identification Of Interested/Affected Parties

The following is a list of potentially interested or affected parties that will be provided with information about this site:

A. FEDERAL ELECTED OFFICIALS

1. Hon. Charles Schumer
U.S. Senate
26 Federal Plaza
New York, New York 10278
(212) 947-7390
2. U.S. Senator Daniel P. Moynihan
U.S. Senate
464 Russell Senate Office Building
Washington, DC 20510
(212) 661-5150
3. Congressman Peter King
Room 224 Cannon
House Office Building
Washington, DC 20515
(202) 225-7896

District Office:

1003 Park Boulevard
Baldwin, New York 11762
(516) 541-4225

B. STATE ELECTED OFFICIALS

1. State Senator Kemp Hannon
1600 Stewart Avenue, Suite 315
Westbury, New York 11590
2. State Assemblyman Michael Balboni
1600 Stewart Avenue, Suite 315
Westbury, New York 11590
(516) 222-0007
3. State Assemblywoman Donna Ferrara
150 Post Avenue
Westbury, New York 11590
(516) 338-2693
7. State Assemblywoman Earlene Hill
80 North Franklin Street
Hempstead, New York 11550
(516) 489-6610

C. NASSAU COUNTY OFFICIALS

1. Michael J. Alarcon, P.E., Director
Nassau County Department of Health
Bureau of Environmental Engineering
240 Old Country Road
Mineola, New York 11501
(516) 571-2404
2. Bruce Smith, P.E., Director
Nassau County Department of Health
Division of Environmental Health
240 Old Country Road
Mineola, New York 11501

3. Dr. Kathleen Gaffney, Commissioner
Nassau County Department of Health
240 Old Country Road, 5th Floor
Mineola, New York 11501
(516) 571-2260
4. John Kiernan, Commissioner
Department of Recreation & Parks
Recreation & Parks Administration Building
Eisenhower Park
East Meadow, New York 11554
(516) 572-0272
5. James Mulligan
Nassau County Department of Public Works
Water Management Unit
170 Cantiague Rock Road
Hicksville, New York 11801-1199

D. TOWN OF HEMPSTEAD

1. Gregory Peterson
Supervisor
Town of Hempstead
Town Hall, Town Hall Plaza
Hempstead, New York 11550
(516) 489-5000
2. Town Council
Town of Hempstead
Town Hall, Town Hall Plaza
Hempstead, New York 11550
3. George J. Trias, Commissioner
Commissioner of General Services
Town of Hempstead
Town Hall, Town Hall Plaza
Hempstead, New York 11550
4. Ronald J. Levinson, Town Attorney
Town of Hempstead
Town Hall, Town Hall Plaza
Hempstead, New York 11550

5. Daniel Davis, Commissioner
Town of Hempstead Water District
1995 Prospect Avenue
East Meadow, New York 11554
(516) 794-8300
6. Vincent Ferdico
Assistant Superintendent, Inspection Services
Department of Buildings
Town of Hempstead
1 Washington Street
Hempstead, New York 11550

E. MEDIA

1. Newsday (Daily: serves Long Island and area)
Mary Ellen Peirera, Government Watch Section
235 Pinelawn Road
Melville, New York 11747
(516) 454-2700
2. The Westbury Times
275 Liberty Avenue
Westbury, New York 11590
3. Ross Allegretti
Penny Saver, Westbury Edition
250 Miller Place
Hicksville, New York 11801-1826

F. CITIZENS AND OTHER INTERESTED PARTIES

1. Rosemary Konatich
c/o NYS Legislative Commission, Long Island Water
11 Middle Neck Road
Suite 200
Great Neck, New York 11021
2. Nassau Community College
One Education Drive
Garden City, New York 11530

3. Jeff Fullmer
Long Island Citizen Advisory Committee on Hazardous Waste
c/o Citizens Campaign for the Environment
550 Smithtown Bypass
Suite 205
Smithtown, New York 11787
4. Eddie Easan
Westbury Community Improvement Corp.
979 Prospect Avenue
New Cassel, New York 11590
5. Richard Gilbrey
Central Westbury Civic Association
521 Jefferson Street
Westbury, New York 11590
6. Kenneth Skipka
Concerned Citizens of Westbury
68 Ross Avenue
Westbury, New York 11590
7. Dr. Robert D. Pinckney, Superintendent
Westbury School District
2 Hitchcock Lane
Old Westbury, New York 11568-1624
8. Fire Chief
Westbury Fire Department
355 Maple Avenue
Westbury, New York 11590
9. Larry Ennist
Citizen Participation-Environmental Remediation
NYSDEC
Room 208
50 Wolf Road
Albany, New York 12233-7010
10. Miriam Strassberg
1441 Wilson Road
East Meadow, New York 11554

11. Victoria DeJon
Citizen Committee for Civic Action
800 Captains Gate Lane
Westbury, New York 11590

G. RESIDENTS IN THE AREA OF THE SITE

No private residences are present within one quarter mile of the site

Identification Of Department Contacts

1. Mark Lowery
Regional Supervisor of Public Affairs & Education
Region 1, NYSDEC
Building 40
State University of New York
Stony Brook, New York 11790
(516) 444-0249
2. Girish Desai
Project Manager
Region 1, NYSDEC
Building 40
State University of New York
Stony Brook, New York 11790
(516) 444-0243
3. William Gilday
New York State Department of Health
Bureau of Environmental Exposure Investigation
2 University Place, Room 205
Albany, New York 12203
1-800-458-1158 (Ext. 305)
4. Mark VanDeusen
New York State Department of Health
Health Liaison Program
2 University Place, Room 240
Albany, New York 12203
1-800-458-1158 (Ext. 402)

Identification Of Document Repository Location

1. East Meadow Public Library
1886 Front Street
East Meadow, New York 11554

(516) 794-2570

Hours of Operation:

Monday - Friday	9 a.m. - 9 p.m.
Saturday	9 a.m. - 1 p.m. (summer) 9 a.m. - 5 p.m. (fall, winter, spring)
Sunday	closed (summer) 1 p.m. - 5 p.m. (fall, winter, spring)

Contact:

John F. Franzen, Director

2. New York State Department of Environmental Conservation
Region 1
Hazardous Waste Remediation Unit
State University of New York
Building 40
Stony Brook, New York 11790-2356
(516) 444-0240

Hours of Operation:

Monday - Friday 8:30 a.m. - 4:45 p.m.

Description Of Specific Citizen Participation Activities For Each Major Element Of The Remedial Program

The following activities will be conducted for the site located at 425 Merrick Avenue citizen participation program. The objective of these activities is to encourage two-way communication about the site and any remedial activities that may be undertaken.

As the site investigation and IRMs get underway, public information materials will be made available at the East Meadow Public Library. These will include copies of this

CPP, the previous investigations reports, the site investigation and IRM Work Plan, and fact-sheets.

Specific citizen participation activities for this site will include a fact-sheet prior to the start of field work and another fact-sheet at the completion of the project. If the IRM lasts for more than six months, it is considered to be a "non-time-critical" IRM, and a public meeting to discuss the results of the IRM would be conducted. In this case, the second fact-sheet will also be used to help provide notice of the public meeting, and the public will also be notified through a NYSDEC press release. In the event that the IRM is followed by a Remedial Investigation/Feasibility Study (RI/FS), further citizen participation will be conducted as per relevant NYSDEC regulation, policy, and guidance.

Glossary Of Key Terms And Major Program Elements

The following section provides definitions of the terms commonly used in a CPP.

Definitions of Commonly Used Citizen Participation Terms

Citizen Participation - A process to inform and involve the interested/affected public in the decision-making process during identification, assessment, and remediation of inactive hazardous waste sites. This process helps to ensure that proper input is made from all interested parties.

Citizen Participation Plan - A document that describes the site-specific citizen participation activities that will take place to complement the "technical" (remedial) activities. It also provides site background and rationale for the selected citizen participation program for the site. A plan may be updated or altered as public interest or the technical aspects of the program change.

Interested/Affected Parties - names, addresses, and/or telephone numbers of individuals, groups, organizations, and media interested and/or affected by a particular hazardous waste site. Interest in the site, stage of remediation, and other factors guide how comprehensive the list becomes.

Document Repository - Typically a public building, such as a library, near a particular site, at which documents related to remedial and citizen participation activities at the site are available for public review. Provides access to documents at times and a location convenient to the public. Environmental Management Councils (EMCs), Conservation Advisory Committees (CACs), as well as active local groups often can serve as supplemental document repositories.

Information Materials - A written discussion of a site's remedial process, prepared for the public in easily understandable language. May be prepared for the "general" public or a particular segment. Uses may include discussion of an element of the remedial program, notification of opportunities for public involvement, availability of a report or other information, or announcement of a public meeting. May be mailed to all or part of the interested public, distributed at meetings or sent on an "as-requested basis.

Public - The universe of individuals, groups, and organizations: (a) affected (or potentially affected) by an inactive hazardous waste site and/or its remedial program; (b) interested in the site and/or its remediation; (c) having information about the site and its history.

Public Notice - A written or verbal information technique for telling people about an important part of a site's upcoming remedial program (e.g., announcement that the report for the IRMs is publicly available; a public meeting has been scheduled).

Another kind of public notice may be more informal and may not be legally required (e.g., paid newspaper advertisement; telephone calls to key citizen leaders; targeted mailings).

Definitions of Significant Elements and Terms of the Remedial Program

The first eight definitions represent major elements of the remedial process. They are presented in the order in which they occur, rather than in alphabetical order, to provide a context to aid in their definition.

Site Placed on Registry of Inactive Hazardous Waste Sites - Each inactive site known or suspected of containing hazardous waste must be included in the Registry. Therefore, all sites that state or county environmental or public health agencies identify as known or suspected to have received hazardous waste should be listed in the Registry as they are identified. Whenever possible, the NYSDEC carries out an initial evaluation at the site before listing.

Preliminary Site Assessment - Preliminary characterizations of hazardous substances present at a site; estimates pathways by which pollutants might be migrating from the original site of disposal; identifies population or resources that might be affected by pollutants from a site; observes how the disposal area was used or operated; and gathers information regarding who might be responsible for wastes at a site. Involves a search of records from all agencies known to be involved with a site, interviews with site owners, employees, and local residents to gather pertinent information about a site. Information gathered is summarized in a Preliminary Site Assessment Report.

After a preliminary assessment, NYSDEC may choose to initiate an emergency response; to nominate the site for the National Priorities List; or, where additional information is needed to determine site significance, to conduct further (Phase II) investigation.

Phase II Site Investigation - Ordered by NYSDEC when additional information is still needed after completion of Phase I to properly classify the site. A Phase II investigation is not sufficiently detailed to determine the full extent of the contamination, to evaluate remedial alternatives, or to prepare a conceptual design for construction. Information gathered is summarized in a Phase II report and is used to arrive at a final hazard ranking score and to classify the site.

Remedial Investigation (RI) - A process to determine the nature and extent of contamination by collecting data and analyzing the site. It includes sampling and monitoring, as necessary, and includes the gathering of sufficient information to determine the necessity for, and proposed extent of, a remedial program for the site.

Feasibility Study (FS) - A process for developing, evaluating, and selecting remedial actions, using data gathered during the remedial investigation to define the objectives of the remedial program for the site and broadly develop remedial action alternatives; perform an initial screening of these alternatives; and perform a detailed analysis of a limited number of alternatives that remain after the initial screening stage.

Proposed Remedial Action Plan (PRAP) – A document that describes the remedial action selected by the NYSDEC. It provides a description of the remedial technic, the anticipated duration for the remedial action and the standards, criteria or guidance for the remediation of the site. This document is provided to the public for a 45-day period within which written comments on the proposed remedial action plan may be submitted. The plan may then be updated or altered as public interest or the technical aspects of the program change.

Record of Decision – The remedy selection process will be documented in a Record of Decision (ROD), which will be signed by the Commissioner of NYSDEC, and will provide the location and description of the site, history of site operations, current environmental and health status, enforcement history and status, goals and objectives of the selected remedial action, description and evaluation of alternatives, summary of the NYSDEC basis of decision, and a list of documents the NYSDEC used in its decisionmaking.

Remedial Design - Once a remedial action has been selected, technical drawings and specifications for remedial construction at a site are developed, as specified in the final

RI/FS report. Design documents are used to bid and construct the chosen remedial actions. Remedial design is prepared by consulting engineers with experience in inactive hazardous waste disposal site remedial actions.

Construction - NYSDEC selects contractors and supervises construction work to carry out the design remedial alternative. Construction may be as straightforward as excavation of contaminated soil with disposal at a permitted hazardous waste facility. On the other hand, it may involve drum sampling and identification, complete encapsulation, leachate collection, storage and treatment, ground-water management, or other technologies. Construction costs may vary from several thousand dollars to many millions of dollars, depending on the site of the site, the soil, ground water and other conditions, and the nature of the wastes.

Monitoring/Maintenance - Denotes post-closure activities to ensure continued effectiveness of the remedial actions. Typical monitoring/maintenance activities include quarterly inspection by an engineering technician; measurement of level of water in monitoring wells; or collection of ground water and surface water samples and analysis for factors showing the condition of water, presence of toxic substances, or other indicators of possible pollution from the site. Monitoring/maintenance may be short term (1-3 years) or required indefinitely at many sites.

Consent Order - A legal and enforceable negotiated agreement between NYSDEC and responsible parties where responsible parties agree to undertake investigation and cleanup or pay for the costs of investigation and cleanup work at a site. The order includes a description of the remedial actions to be undertaken at the site and a schedule for implementation.

Contract - A legal document signed by a contractor and NYSDEC to carry out specific site remediation activities.

Contractor - A person or firm hired to furnish materials or perform services, especially in construction projects.

Delisting - Removal of a site from the state Registry based on study that shows the site does not contain hazardous wastes.

Interim Remedial Measures - a discrete set of activities to address both emergency and non-emergency site conditions to prevent, mitigate, or remedy environmental damage or the consequences of environmental damage attributable to the site. It addresses one portion of a remedial site and can usually be addressed independently of other site issues/problems.

Potentially Responsible Party Lead Site - An inactive hazardous waste site at which those legally liable for the site have accepted responsibility for investigating environmental conditions at the site, and for developing and implementing the site's remedial program. PRPs include those who owned the site during the time wastes were placed, current owners, past and present operators of the site, and those who generated the wastes placed at the site. Remedial programs developed and implemented by PRPs generally result from an enforcement action taken by the State and the costs of the remedial program are generally borne by the PRP.

Ranking System - The U.S. Environmental Protection Agency uses a hazard ranking system (HRS) to assign numerical scores to each inactive hazardous waste site. The scores express the relative risk or danger from the site.

Responsible Parties - Individuals, companies (e.g. site owners, operators, transporters, or generators of hazardous waste) responsible for or contributing to the contamination problems at a hazardous waste site. PRP is a potentially responsible party.

Site Classification - NYSDEC assigns sites to classifications established by State law, as follows:

- Classification 1 - A site causing or presenting an imminent danger of causing irreversible or irreparable damage to the public health or environment - immediate action required.
- Classification 2 - A site posing a significant threat to the public health or environment - action required.
- Classification 3 - A site that has hazardous waste confirmed, but not a significant threat to the public health or environment - action may be deferred.
- Classification 4 - A site that has been properly closed - requires continued management.
- Classification 5 - A site that has been properly closed, with no evidence of present or potential adverse impact - no further action required.

State Lead Site - An inactive hazardous waste site at which NYSDEC has responsibility for investigating problems at the site and for developing and implementing the site's remedial program. The Department uses money available from

the State Superfund and the Environmental Quality Bond Act of 1986 to pay for these activities. NYSDEC has direct control and responsibility for the remedial program.

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APPENDIX C

SOIL/CORE LOGS

SAMPLE/CORE LOG

Boring/Well Project/No. NY0962.001 B/C ? Page 1 of 2
 Site Location 425 MA Drilling Started 9:20 Drilling Completed 8.1.97
 Total Depth Drilled _____ feet Hole Diameter _____ inches Type of Sample/ Coring Device Hand Auger / Geoprobe
 Length and Diameter of Coring Device _____ Sampling Interval _____ feet
 Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____
 Drilling Fluid Used _____ Drilling Method Geoprobe / Hand Auger
 Drilling Contractor Zebra Driller chris Helper chris
 Prepared By A. Gilmore Hammer Weight _____ Hammer Drop _____ inches

	Sample/Core Depth (feet below land surface)		Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description	PPM H&S
	From	To				
3-14	0	2			SP- Sand medium to coarse w/ fine gravel	3.0
B-15	0	2			Same as above w/ some roots	26.4
3-20	0	2			SP- Sand Medium to coarse some roots	1.1
3-21	0	2			SP- Sand Med to fine some coarse Sand Roots	6.0
3-19 ↓ V	4	6			Bottom sediments of septic tank ^{Black}	2.2
	9	11			Fine & med. Sand. Brown - light brown	1.6
	14	16			Fine & Med. Sand Brown - light brown	2.0
	19	21			Sand. Medium & fine Sand light brown	2.0
	24	26			Sand med. to fine moist to Saturated	1.3
	29	31	not taken		w.t. ~ 26 ft bls Sample collected from 4-6 ft bls choice made upon visual color & knowledge of bottom of tank at this depth Septic	
B22	9	10			Sand. Medium to fine w/ some coarse Sand Trace fine Gravel Roots Sample collected from inside dry well	31.2



SAMPLE/CORE LOG

Boring/Well _____ Project/No. **NY0962.001 TSK 9** Page **2** of **2**
 Site Location **425 MA** Drilling Started **7/30/97** Drilling Completed **8-1-97**
 Total Depth Drilled _____ feet Hole Diameter _____ inches Type of Sample/ Coring Device **Geoprobe/Hand Auger**
 Length and Diameter of Coring Device _____ Sampling Interval _____ feet
 Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____
 Drilling Fluid Used _____ Drilling Method **Geoprobe/Hand Auger**
 Drilling Contractor **Zebra** Driller _____ Helper _____
 Prepared By **A. Gilmore** Hammer Weight _____ Hammer Drop _____ inches

	Sample/Core Depth (feet below land surface)		Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description	PPM
	From	To				
B-27	0	2			Sand. Medium to Coarse w/ fine Sand & fine gravel	2.5
B-24	3	5			Sand. Medium to Fine w/ Coarse Sand	1.6
					Fine Gravel	
B-3	0	2			Sand. Fine to Medium some coarse sand	2.0
	5	7			Sand. Med to fine w/ trace coarse sand	4.4
	10	12			Sand. Fine Sand trace Med. Sand	1.1
	15	17			Sand. Fine Sand some Med Sand trace coarse Sand/gravel	1.8
	20	22			Sand Fine to Med. bottom 6" silt	1.1
	25	27			DID NOT TAKE	
					Water table ~ 22.5 ftbls	
					Sample taken from 5-7 ftbls based on visual color is dark & PID observation	
					& septic tank is at this depth	
B-28	10	12			Coarse gravel - moist - Med. Sand & fine Sand	1.2
	Bottom of SO-2					

7.31.97

SAMPLE/CORE LOG

Boring/Well _____ Project/No. NY0962.001 Page 1 of 2
 Site Location Y25 MA Drilling Started 7.30 Drilling Completed 8.1.97
 Total Depth Drilled _____ feet Hole Diameter _____ inches Type of Sample/ Coring Device Geoprobe/H.A.
 Length and Diameter of Coring Device _____ Sampling Interval _____ feet
 Land-Surface Elev. _____ feet Surveyed _____ Estimated _____ Datum _____
 Drilling Fluid Used none Drilling Method Geoprobe/H.A.
 Drilling Contractor Zebra Driller chris Helper chris
 Prepared By A. Gilmore Hammer Weight _____ Hammer Drop _____ inches

	Sample/Core Depth (feet below land surface)		Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description	PTD H&S
	From	To				
B-12	0	2			Sand. Med to fine w/ coarse sand Black	7.5
	5	7			Sand Med. to fine w/ coarse sand light brown	1.8
	10	12			Sand. Med. to fine w/ coarse sand	1.6
	15	17			Sand Med to coarse w/ fine sand	2.3
	20	22			Fine Sand trace silt gray	1.3
	25	27			Fine Sand Brown Saturated	1.4
B-13					Sample for analysis collected at 0-2 ft interval based on color & PTD	
	0	2			Sand Med to fine Black	1.8
	5	7			Sand Med. to fine Brown	.9
	10	12			Same as above light brown	.8
	15	17			Sand med to coarse sand brown	1.1
	20	22			Sand fine to Med. Saturated	1.2
B-23					Sample taken from 0-2 interval Based on coloration & surface sample	
	0	2			Sand medium to fine w/ coarse sand & fine gravel	2.2
B-21	0	2			Same as B-23	.4



7.31.97

SAMPLE/CORE LOG

Boring/Well... Project/No. NY0962.001 Page 2 of 2
 Site Location 425 MA Drilling Started 7.30.97 Drilling Completed 8.1.97
 Total Depth Drilled _____ feet Hole Diameter _____ inches Type of Sample/ Coring Device H.A. / Geoprobe
 Length and Diameter of Coring Device _____ Sampling Interval _____ feet
 Land-Surface Elev. _____ foot Surveyed _____ Estimated _____ Datum _____
 Drilling Fluid Used _____ Drilling Method H.A. / Geoprobe
 Drilling Contractor Zebra Driller chris Helper chris
 Prepared By A.C. Gilmore Hammer Weight _____ Hammer Drop _____ inches PPM

P10

H&S

	Sample/Core Depth (feet below land surface)		Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description	
	From	To				
B17	0	2			SAND Med to Coarse Fine Sand & gravel	4.4
B16	0	2			SAND " " "	4.1
B-7	15	17			SAND light Brown Fine & med	1.0
	20	22			Saturated at tip Fine Sand & silt 9-10 ft sample will be submitted	.8
B-21	2	4			Due to PCB hit Took another sample deeper in boring Sand. Med to fine	.5
B-2	10	12			Sand Fine to Medium light brown	2.3

8.1.97

SAMPLE/CORE LOG

Boring/Well _____ Project/No. NY0962-001

Page 1 of 2

Site Location 425 MA

Drilling Started 7.30.97

Drilling Completed 8.1.97

Total Depth Drilled _____ feet Hole Diameter _____ inches

Type of Sample/ Coring Device Geoprobe/H.A.

Length and Diameter of Coring Device _____

Sampling Interval 5 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used _____

Drilling Method H.A./Geoprobe

Drilling Contractor Zebra

Driller Chris Helper Chris

Prepared By A. Gilmore

Hammer Weight _____ Hammer Drop _____ inches

Sample/Core Depth (feet below land surface) From To Core Recovery (feet) Time/Hydraulic Pressure or Blows per 6 inches

Sample/Core Description

ppm
H&S

3-26

0	2			Sand. Med to Coarse fine gravel Fine Sand Black	4.0
5	7			Sand Med to coarse fine gravel Fine Sand Black Brown	33.7
10	12			Sand Med to Coarse fine gravel Fine Sand light Brown	1.7
15	17			Sand Med to fine w/ coarse Sand light brown	1.8
20	22		Saturated	Sand fine Sand & silt gray	
25	27			Did not take	
				Sample taken From 5-7 Ftbls	

B-25

0	2			Sand. Med to coarse Black w/ fines	2.3
5	7			Sand. Med to coarse light brown	1.2
10	12			Sand. Med to coarse w/ fines light Brown	2.1
15	17			Sand. Med to coarse w/ fines light Brown	1.9
20	22			Sand silt Gray Saturated at end	.6
				0-2 Ft interval chosen	

B-29

2	4			Sand Med to coarse organics Black	109
				oil odor	



SAMPLE/CORE LOG 8-1-97

Boring/Well: _____ Project/No. NY0967.001 Page 2 of 2
 Site Location 425 MA Drilling Started 7-30-97 Drilling Completed 8-1-97
 Total Depth Drilled _____ feet Hole Diameter _____ inches Type of Sample/ Coring Device Geoprobe/H.A.
 Length and Diameter of Coring Device _____ Sampling Interval _____ feet
 Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____
 Drilling Fluid Used _____ Drilling Method H.A./ Geoprobe
 Drilling Contractor Zebra Driller Chris Helper Chris
 Prepared By A. Gilmore Hammer Weight _____ Hammer Drop _____ inches

Sample/Core Depth (feet below land surface)		Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description	PPM
From	To				
B-31	15	15		Taken inside pool	
5	6.5			Sand. Med to coarse Fine sand Black	5.1
10	12			outside pool	7.1
15	17			Sand Med to fine Pale Brown	7.0
20	22			Sand Med to fine w/coarse Pale Brown	5.9
25	27			Fine Sand & silt Black gray Saturated	2.0
Sample taken from 10-12 FT highest P50					

Unconsolidated Boring Log

BoringWell	A.B.C., D.E.F
Project Number	NY000962.0001
Client Name	425 Meerkick Ave
Site Location	Westbury, NY
Date	11/12/99
Prepared by	G. Williams
Start Time and Date	11/12/99 @ 10:00 AM
Finish Time and Date	11/12/99 @ 16:00 PM
PPC or FID with Lamp Size	10.8 ev
Calibration, Gas/Time/Results	

Boring Location Sketch

Drilling Contractor
Driller & Helper
Drilling Method
Sampling Interval
Hammer Weight
Drop Height
Total Depth Drilled
Borehole Diameter
Drilling Fluid Used
Sample Device
Dimensions

[illegible]

Unconsolidated Boring Log

Boring/Well
Project Number
Client Name
Site Location
Date
Prepared by
Start Time and Date
Finish Time and Date
PID or FID with Lamp Size
Calibration Gas/Time/Results

Boring Location Sketch

Drilling Contractor
Driller & Helper
Drilling Method
Sampling Interval
Hammer Weight
Drop Height
Total Depth Drilled
Borehole Diameter
Drilling Fluid Used
Sample Device
Dimensions

[illegible]

APPENDIX D

FIELD IMMUNOASSAY TEST RESULTS

Table D-1. Immunoassay Field Test Kit Results for PCBs in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Sample Designation	Date:	DTECHTOR Reading (in percent)	PCB Equivalent (in ppm)	Laboratory Confirmation Analysis (in mg/kg)
TPVII S	7/28/97	25	2.1	98
TPVII W	7/29/97	9	<0.5	0.02
TPVII N	7/29/97	10	0.5	0.01
TPVII E	7/29/97	11	0.55	1.3
TPVII BTM (7' bls)	7/29/97	9	<0.5	2.1*
TPVII BTM (3' bls)	7/29/97	3	<0.5	2.1*
TPVII SW	12/29/97	21	1.1	0.06
GP-1 N&S sides	7/28/97	9	<0.5	5.5*
GP-1 E&W sides	7/29/97	25	2.1	5.5*
GP-1 BTM (10' bls)	7/29/97	69	24	--
GP-1 BTM (12' bls)	7/29/97	41	4.1	211
GP-1 12-14	10/22/97	46	7	--
GP-1 14-16	10/22/97	18	0.9	1.87
GP-1 16-18	10/22/97	1	<0.5	0.07
GP-2 N&E sides	7/25/97	9	<0.5	0.17*
GP-2 S&W sides	7/25/97	4	<0.5	0.17*
GP-2 BTM	7/25/97	12	0.6	0.17*
B-14	7/28/97	6	<0.5	0.208
B-15	7/28/97	15	0.75	0.33
B-16	7/29/97	6	<0.5	0.06
B-17	7/29/97	14	0.7	0.23
B-20	7/28/97	4	<0.5	0.26
B-21 0-2	12/30/97	54	11.6	290
B-21 2-4	12/30/97	27	2.3	--
B-21 E (3' bls)	12/30/97	16	0.8	0.14*
B-21 W (1' bls)	7/29/97	28	2.5	0.14*
B-21 BTM	7/29/97	8	<0.5	0.39
B-22	7/29/97	7	<0.5	1.65
B-23	7/29/97	LO	<0.5	0.36
B-24	7/28/97	36	4.2	8.7
B-30	7/28/97	24	1.7	0.94

See last page for footnotes.

Table D-1. Immunoassay Field Test Kit Results for PCBs in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Sample Designation	Date:	DTECTOR Reading (in percent)	PCB Equivalent (in ppm)	Laboratory Confirmation Analysis (in mg/kg)
NP-A(east)	6/1/00	19	0.9	0.51
NP-B(north)	6/1/00	10	0.5	0.17
NP-C(west)	6/1/00	14	0.7	0.58
NP-D(bottom)	6/1/00	15	0.8	1.28
NP-E(south)	6/1/00	LO	<0.5	0.67

ppm Parts per million.
mg/kg Milligrams per kilogram.
bls Below Land Surface.
LO Less than 1 percent.
-- Not analyzed.
* Composite sample result.

Table D-2. Immunoassay Field Test Kit Results for Mercury in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Sample Location	Mercury Concentration (mg/kg)
Excavation B-17	
North	< 0.5
South	< 0.5
East	< 0.5
West	NS
Bottom	< 0.5
Excavation B 23	
North	< 0.5
South	< 0.5
East	< 0.5
West	< 0.5
Bottom	< 0.5
Excavation West of Building II	
North	< 0.5
South	< 0.5
East	NS
West	< 0.5
Bottom	< 1.0

Analyses performed using field test kit.

mg/kg Milligrams per kilogram.

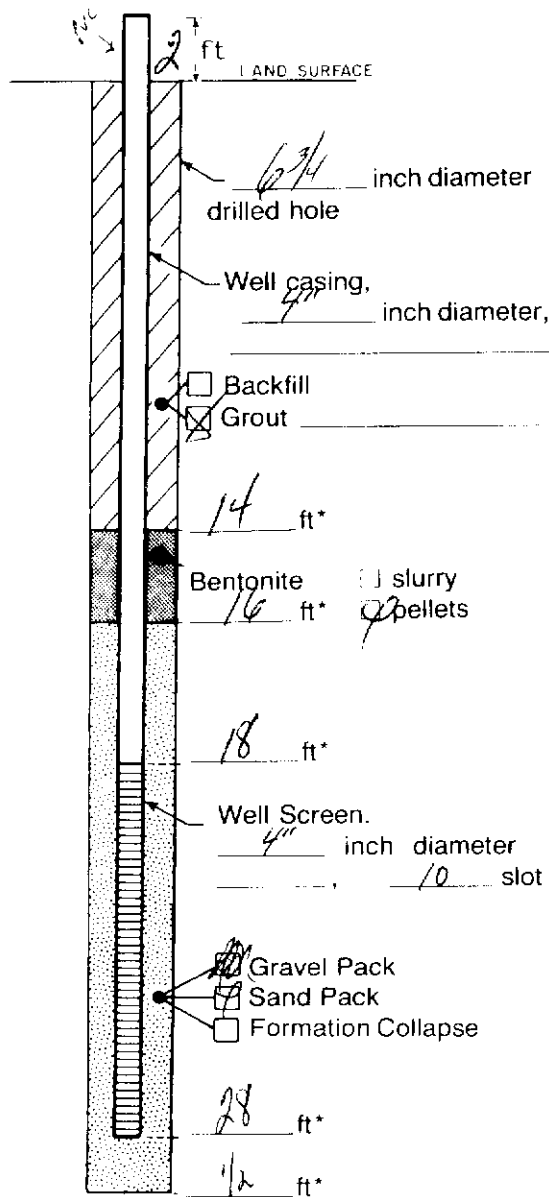
NS Not sampled due to building foundation.

APPENDIX E

WELL CONSTRUCTION LOGS

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)

12-17-97



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

*Depth Below Land Surface

Project _____ Well 1760-3

Town/City Westbury

County NASSAU State NY

Permit No. _____

Land-Surface Elevation
and Datum _____ feet ☐ Surveyed
☐ Estimated

Installation Date(s) _____

Drilling Method _____

Drilling Contractor _____

Drilling Fluid _____

Development Technique(s) and Date(s) _____

Fluid Loss During Drilling _____ gallons

Water Removed During Development _____ gallons

Static Depth to Water 12.19 feet below M.P.

Pumping Depth to Water _____ feet below M.P.

Pumping Duration _____ hours

Yield _____ gpm Date 12-17-97

Specific Capacity _____ gpm/ft

Well Purpose _____

Remarks at @ 20 - 30 feet - above
1/2 table large amount of sand felt
percol (use + for color)

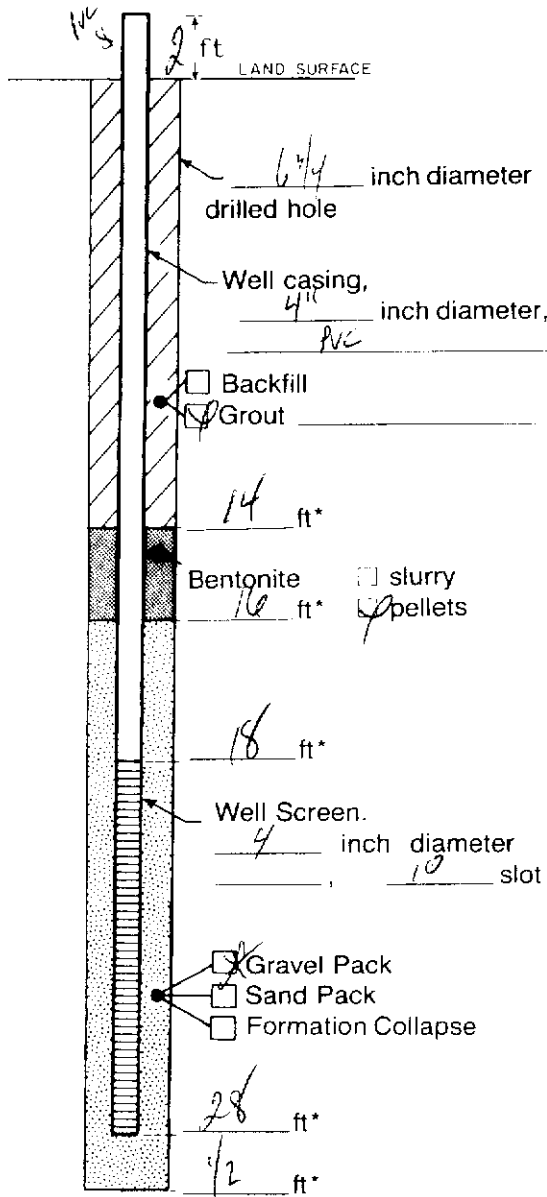
Screen 9 feet in 1/2 table

Screen 1 foot above 1/2 table

Prepared by John Scherzinger

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)

12-17-97



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

*Depth Below Land Surface

Project _____ Well WV-2

Town/City Westbury

County NASSAU State _____

Permit No. _____

Land-Surface Elevation _____

and Datum _____ feet ☐ Surveyed

☐ Estimated

Installation Date(s) _____

Drilling Method _____

Drilling Contractor _____

Drilling Fluid _____

Development Technique(s) and Date(s) _____

Fluid Loss During Drilling _____ gallons

Water Removed During Development _____ gallons

Static Depth to Water ~ 19 feet below M.P.

Pumping Depth to Water _____ feet below M.P.

Pumping Duration _____ hours

Yield _____ gpm Date 12-17-97

Specific Capacity _____ gpm/ft

Well Purpose _____

Remarks 8 ft of screen in H₂O TABLE

2 ft of screen out of H₂O TABLE

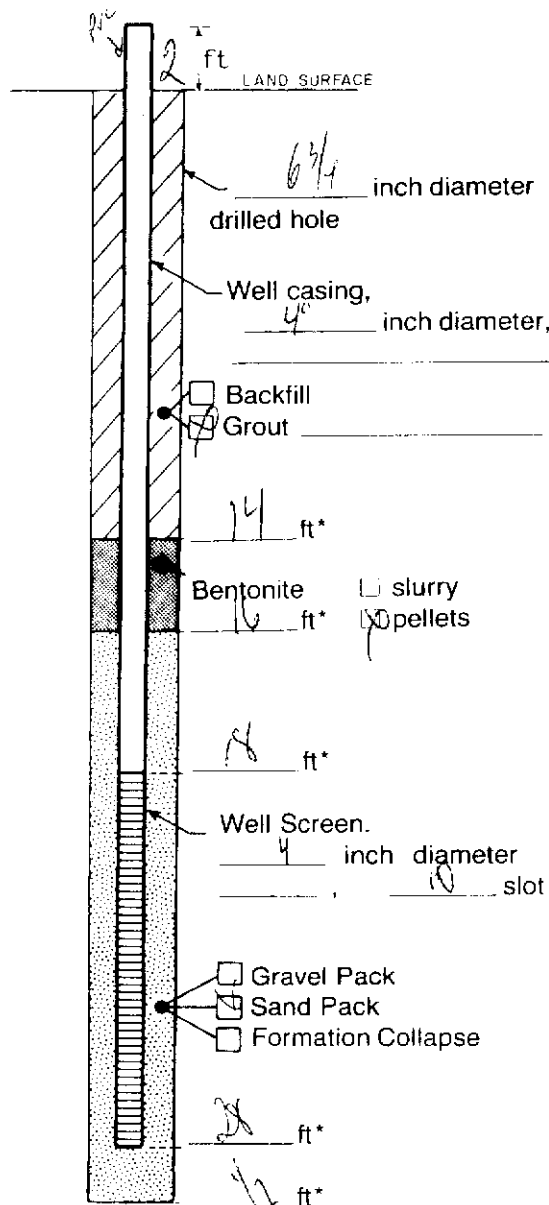
@ about 22 ft a small amt of light tan Sand/silt found

@ about 28 ft gray clay/silt found

Prepared by JOHN SCHREIBER

WELL CONSTRUCTION LOG

(UNCONSOLIDATED)



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

*Depth Below Land Surface

Project _____ Well MW-1

Town/City Norbury

County NASSAU State NY

Permit No. _____

Land-Surface Elevation _____
and Datum _____ feet ☐ Surveyed
☐ Estimated

Installation Date(s) _____

Drilling Method _____

Drilling Contractor _____

Drilling Fluid _____

Development Technique(s) and Date(s) _____

Fluid Loss During Drilling _____ gallons

Water Removed During Development _____ gallons

Static Depth to Water ~ 19 feet below M.P.

Pumping Depth to Water _____ feet below M.P.

Pumping Duration _____ hours

Yield _____ gpm

Specific Capacity _____ gpm/ft

Well Purpose _____

Remarks Sandy Silt @ 20 ft - above the table
Same gray clay
present

Split of Screen above the table
2 feet of Screen above the table

Bottom 5 ft - clay gray + tan
Sandy Silt

Prepared by _____

APPENDIX F

WASTE DISPOSAL MANIFESTS

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address		425 Merrick Ave PRFCorp 425 Merrick Ave Hempstead, NY 11590		A. State Manifest Document Number MI 4488524		
4. Generator's Phone (516) 211-1111		6. US EPA ID Number		B. State Generator's ID SAME		
5. Transporter 1 Company Name Hornum Trucks, Inc.		7. US EPA ID Number MAD1146714778		C. State Transporter's ID NY-PA-263		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 800-220-8807		
9. Designated Facility Name and Site Address Wayne Disposal 44350 N I-14 Service Dr Bellaire, MI 48111		10. US EPA ID Number MIED0430910633		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID SAME		
				H. Facility's Phone 800-592-5484		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	I. Waste No. N/H	
a. ☒ RQ Polychlorinated Biphenyl Mixture UN 2315, 1, PG. III		No. Type			001 DTX XX 25 T PCB I H	
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above a) Soil contaminated with PCBs		K. Handling Codes for Wastes Listed Above			a/ / b/ / c/ / d/ /	
15. Special Handling Instructions and Additional Information Additional # 042418 PA		Treat & Plan for PCBs D-11A 111				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name		Signature			Date Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature			Date Month Day Year	
Printed/Typed Name		Signature			Date Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature			Date Month Day Year	
Printed/Typed Name		Signature			Date Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature			Date Month Day Year	

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1065892
EQ Account #: 2614
Manifest: MI4488524
Shipper:
Hauler: HORWITH
Date: 4/28/98
Time In: 7:36 AM
Time Out: 11:13 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	042498PA	NYD013590995	GEAGHTY & MILLER					
		PCB1	TONS		87,040	31,160	55,880	27 940
		Hazardous Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk.
I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability
not caused by its gross negligence or willful misconduct.

DELIVERED BY

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111
1033.DOC (6/96)

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB SOLID
and specified on Manifest # 4488524, Line Item 1 has been landfilled on
0428, 199 8 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company officer having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: _____

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address		425 Merrick Ave PRP Group 425 Merrick Avenue Westbury, NY 11590		A. State Manifest Document Number MI 4488525		
4. Generator's Phone (516) 241-7000		6. US EPA ID Number		B. State Generator's ID SAME		
5. Transporter 1 Company Name Horwath Trucks, Inc.		PIAD11467114808		C. State Transporter's ID NY-PA-263		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 800-220-3807		
9. Designated Facility Name and Site Address Wayne Disposal 41350 N. I-74 Service Dr. Bellville, MI 48111		10. US EPA ID Number MIID0481010633		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID SAME		
				H. Facility's Phone 800-592-5489		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a. ☒ RQ Blychlorinated Biphenyl Mixture UN2315, 9, PG III		0,01	DTXXX25	T	PCB1	H
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above a) Soil contaminated with PCBs				K. Handling Codes for Wastes Listed Above		a/ / b/ / c/ / d/ /
15. Special Handling Instructions and Additional Information Approved 012498 PA				Total PCBs 1651		
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.						
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name		Signature		Date		
John A. Merrick		[Signature]		Month Day Year		
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Date		
Printed/Typed Name		Signature		Month Day Year		
Jeffrey Bell		[Signature]		Month Day Year		
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Date		
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Date		
John A. Merrick		[Signature]		Month Day Year		

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE
BALDWIN, NY 11510

Receipt ID: 1065901
EQ Account #: 2614
Manifest: MI4488525
Shipper:
Hauler: HORWITH
Date: 4/28/98
Time In: 12:04 PM
Time Out: 1:18 PM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	042498PA	NYD013590995	GEAGHTY & MILLER					
		PCB1	TONS		74,980	31,040	43,940	21.970
		Hazardous Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB MIXTURE
and specified on Manifest # 4428525, Line Item 1 has been landfilled on
04.28.1998 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. I to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company officer having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: _____



Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NYD001357015562917		Manifest Document No. 62917		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address 425 M... A... PRP Group 425 M... A... W... NY 11510		4. Generator's Phone (516) 347-7600		6. US EPA ID Number IPAD1146714878		A. State Manifest Document Number MI 4362997		B. State Generator's ID SAME	
5. Transporter 1 Company Name Hornith Trucks Inc.		7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID PA-263		D. Transporter's Phone 800-220-8307	
9. Designated Facility Name and Site Address W... Disposal 4350 N. ... Dr. Belleville, MI 48111		10. US EPA ID Number MID0481010633		E. State Transporter's ID		F. Transporter's Phone		G. State Facility's ID SAME	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) a. ☒ RQ Polymers, ... UN 2315, 9, PG III		12. Containers No. Type 001 DT x x x 25 T		13. Total Quantity		14. Unit Wt/Vol		I. Waste No. N/H PCB 1 H	
J. Additional Descriptions for Materials Listed Above a.) Soil contaminated with PCBs ... 9/18/94 ...		K. Handling Codes for Wastes Listed Above a/ / b/ / c/ / d/ /		15. Special Handling Instructions and Additional Information Approved # 042498 PA Decal # 1049		16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.		Date Month Day Year 9/18/94	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature		18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature		19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Signature		Date Month Day Year 9/18/94	

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1065906
EQ Account #: 2614
Manifest: MI4362997
Shipper:
Hauler: HOPRWITH
Date: 4/28/98
Time In: 1:21 PM
Time Out: 2:14 PM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	042498PA	NYD013590995	GEAGHTY & MILLER					
		PCB1	TONS		84,400	33,880	50,520	25.260
		Hazardous Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid
and specified on Manifest # 4362997, Line Item 7 has been landfilled on
4/28, 1998 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company officer having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [Signature]



ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7650 AND THE NATIONAL POLLUTION CENTER AT 1-800-424-9802 24 HOURS PER DAY.

EPA Form 8700 22 (Rev. 9/88)

GENERATOR 2nd COPY

Receipt

BROOKSIDE ENVIRONMENTAL, INC
2108 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1066005
EQ Account #: 2614
Manifest: MI4362999
Shipper:
Hauler: HORWITH
Date: 5/1/98
Time In: 8:23 AM
Time Out: 9:23 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	042498PA	NYD013590995	GEAGHTY & MILLER					
		PCB1	TONS		85,200	32,700	52,500	26.250
		Hazardous Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB SOLID
and specified on Manifest # 436247, Line Item 1 has been landfilled on
05/01, 199 8 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company officer having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: _____



Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MIYD013510155621112		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address 425 Morris Ave PRT Group 425 Morris Ave Westbury, NY 11590						A. State Manifest Document Number MI 4362998											
4. Generator's Phone (516) 241-7600						B. State Generator's ID SAME											
5. Transporter 1 Company Name Hornith Trucks, Inc.						C. State Transporter's ID NY-PA 263											
7. Transporter 2 Company Name						D. Transporter's Phone 800-170-8307											
6. US EPA ID Number HAID14167148713						E. State Transporter's ID											
8. US EPA ID Number						F. Transporter's Phone											
9. Designated Facility Name and Site Address Wayne Disposal 41350 N. I-94 Service Dr. Bellville, MI 48111						G. State Facility's ID SAME											
10. US EPA ID Number MIJ10148101016133						H. Facility's Phone 800-592-5489											
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.		N/H			
a. ☒ RQ Polychlorinated Biphenyl Mixture UN2315, 9, PG III						No. Type		2000		16		E PCB		H			
b.																	
c.																	
d.																	
J. Additional Descriptions for Materials Listed Above a) Soil contaminated with PCBs Site 04-277 ID# 004						K. Handling Codes for Wastes Listed Above				a/ / b/ / c/ / d/ /							
15. Special Handling Instructions and Additional Information Approved # 042498PA						16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name						Signature						Date Month Day Year 04/17/13					
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature						Date Month Day Year 04/17/13					
18. Transporter 2 Acknowledgement of Receipt of Materials						Signature						Date Month Day Year					
19. Discrepancy Indication Space 23682																	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Signature						Date Month Day Year					

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7680 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

GENERATOR
TRANSPORTER
FACILITY

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1065935
EQ Account #: 2614
Manifest: MI4362998
Shipper:
Hauler: HORWITH
Date: 4/29/98
Time In: 12:10 PM
Time Out: 12:14 PM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	042498PA	NYD013590995	GEAGHTY & MILLER					
		PCB1	TONS		85,300	33,220	52,080	26.040
		Hazardous Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct

DELIVERED BY

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111
1033.DOC (6/96)

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB SOLID
and specified on Manifest # 4362498, Line Item A has been landfilled on
4/29, 1998 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company officer having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: _____

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 6	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address 4. Generator's Phone 5. Transporter 1 Company Name 6. US EPA ID Number 7. Transporter 2 Company Name 8. US EPA ID Number 9. Designated Facility Name and Site Address 10. US EPA ID Number				A. State Manifest Document Number MI 4362965 B. State Generator's ID C. State Transporter's ID D. Transporter's Phone E. State Transporter's ID F. Transporter's Phone G. State Facility's ID H. Facility's Phone	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM)				12. Containers	13. Total Quantity
				No.	Type
a. X Poly ...				1	DRUM
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above	
Poly contaminated with PCBs				a / I	
Date 12/10				b / I	
				c / I	
				d / I	
15. Special Handling Instructions and Additional Information					
Generator's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name				Signature	
William Joseph Naper				[Signature]	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Month Day Year	
William Joseph Naper				12 21 98	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Month Day Year	
[Name]				[Date]	
19. Discrepancy Indication Space					
MUT Bld 27, 936 K @ 30 Tons					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name				Signature	
[Name]				[Signature]	
				Date	
				Month Day Year	
				05 01 98	

GENERATOR 2nd COPY

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1066009
EQ Account #: 2614
Manifest: MI4362965
Shipper:
Hauler: HORWITH
Date: 5/1/98
Time In: 9:26 AM
Time Out: 10:46 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	042498PA	NYD013590995	GEAGHTY & MILLER					
		PCB1	TONS		94,100	32,640	61,460	30.730
		Hazardous Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL



FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Sld
and specified on Manifest # WV 4362965, Line Item A has been landfilled on
11/04/94, 199 8 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company officer having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: 

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NYD0113510155621176	Manifest Document No. 621176	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address 425 ALLEN AVE 425 ALLEN AVE WILSON NY 11510		A. State Manifest Document Number MI 4362996		B. State Generator's ID SAME		
4. Generator's Phone (516) 241-7600		6. US EPA ID Number		C. State Transporter's ID NY-PA-243		
5. Transporter 1 Company Name Hornum Trucks, Inc		8. US EPA ID Number		D. Transporter's Phone 800-220-3807		
7. Transporter 2 Company Name		10. US EPA ID Number		E. State Transporter's ID		
9. Designated Facility Name and Site Address Wayne Disposal 47350 N. I-74 Service Rd Bellaire, MI 48111		12. Containers		F. Transporter's Phone		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM)		13. Total Quantity		G. State Facility's ID		
a. ☒ RA Polychlorinated Biphenyls UN 2315 9 PG III		14. Unit Wt/Vol		H. Facility's Phone		
b.		15. Containers		I. Waste No.		
c.		16. Total Quantity		N/H		
d.		17. Unit Wt/Vol		K. Handling Codes for Wastes Listed Above		
J. Additional Descriptions for Materials Listed Above a.) Soil contaminated with PCBs Storage start date = 4-28-98 Container # 007		18. Containers		a/ /		
15. Special Handling Instructions and Additional Information Approval # 042418 PA Trailer # 40 * 763439 PA Drum # 1637		19. Total Quantity		b/ /		
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.		20. Unit Wt/Vol		c/ /		
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.		21. Containers		d/ /		
Printed/Typed Name John B. Kent		Signature [Signature]		Date Month Day Year		
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature [Signature]		Date Month Day Year		
Printed/Typed Name J. Kent		Signature [Signature]		Date Month Day Year		
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature [Signature]		Date Month Day Year		
Printed/Typed Name		Signature		Date		
19. Discrepancy Indication Space MSI Prod 17303K @ 12 Tons		Signature [Signature]		Date Month Day Year		
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Signature [Signature]		Date Month Day Year		
Printed/Typed Name Jason F. C.		Signature [Signature]		Date Month Day Year		

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1066015
EQ Account #: 2614
Manifest: MI4362996
Shipper:
Hauler: HORWITH
Date: 5/1/98
Time In: 10:52 AM
Time Out: 11:22 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	042498PA	NYD013590995	GEAGHTY & MILLER					
		PCB1	TONS		58,420	31,220	27,200	13.600
		Hazardous Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB solid
and specified on Manifest # 01430296, Line Item A has been landfilled on
May 1, 1998 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company officer having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [Signature]



BILL OF LADING		1. Customer's US EPA ID No.	Document No.	2. Page 1	Information in the shaded areas is not required by Federal law.	
3. Customer's Name and Mailing Address		NYDO13590955	NH001	A. Document Number NH001		
4. Phone (516 249-7600)		425 Merrick Avenue PRP Group 425 Merrick Avenue Westbury, NY 11590		B. State ID SAME		
5. Transporter 1 Company Name		Horwith Trucks, Inc.	US EPA ID Number IPAD1.46.71.487.8	C. State Transporter's ID NY-PA-263		
7. Transporter 2 Company Name			US EPA ID Number	D. Transporter's Phone 800-220-8807		
9. Designated Facility Name and Site Address		Waring Disposal, Inc. 44350 N. II-94 Service Drive Belleville, MI 48111	US EPA ID Number MID.0.4.8.0.0.6.33	E. State Transporter's ID SAME		
				F. Facility's Phone 800-592-5489		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
HM		No. Type				
a. Waste Soil Mixture n.o.s. NON-DOT / NON-RCRA HAZARDOUS		0.0.1 DT X.X.X.2.5 T				
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above				
a. Soil containing trace levels of metals						
15. Special Handling Instructions and Additional Information						
Approval # 062598WA Trailer Plate # TM-84346						
16. CUSTOMER CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and selected the best waste management method that is available to me and that I can afford.						
Printed/Typed Name		Signature		Date		
G. GRANT WILSON AS AGENT		[Signature]		0.6/30/98		
17. Transporter 1 Acknowledgement of receipt of Materials		Signature		Date		
Tom Berr...		[Signature]		0.6/30/98		
18. Transporter 2 Acknowledgement of receipt of Materials		Signature		Date		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Date		
James H. ...		[Signature]		0.7/01/98		

CONTROL COPY

WAYNE DISPOSAL, INC.

The Environmental Quality Company

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

106221

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1068221
EQ Account #: 2614
Manifest: NH001
Shipper:
Hauler: HORWITH
Date: 7/1/98
Time In: 11:19 AM
Time Out: 12:11 PM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	062598WA	NYD013590955			425	MERRICK AVE. PRP GROUP		
		NHCS		TONS	83,840	32,820	51,020	25.510
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

BILL OF LADING		1. Customer's US EPA ID No.	Document No.	2. Page 1	Information in the shaded areas is not required by Federal law.	
3. Customer's Name and Mailing Address		NYD013537955	NH002	A. Document Number		NH002
4. Phone (316) 244-7600		425 Merrick Ave PRR Group 425 Merrick Ave Westbury, NY 11590		B. State ID		SAME
5. Transporter 1 Company Name		Hornith Trucking, Inc.	US EPA ID Number D.2.D.1.4.6.7.1.4.8.7.8.	C. State Transporter's ID		NY-PA-363
7. Transporter 2 Company Name			US EPA ID Number	D. Transporter's Phone		800-220-8800
9. Designated Facility Name and Site Address		Wingate Disposal, Inc. 1350 Mt. S. Rd. Westbury, NY 11591-1101	LS EPA ID Number	E. State Transporter's ID		XD73448-PA
				F. Transporter's Phone		
				G. State Facility's ID		SAME
				H. Facility's Phone		800-542-5489
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity	14. Unit Wt/Vol	L. Waste No.
Hazardous Waste Soil mixture, N.O.S. UN-2811 425-2284 Hazardous		300 10T		44 X 25	T	—
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above				
a) soil containing trace levels of metals						
15. Special Handling Instructions and Additional Information						
Approved # 062596WA Transfer plate # XD-73448						
16. CUSTOMER CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of accumulation, storage, or disposal, such as: 1) I have selected the most appropriate management method that is available to me and that I can afford to implement to minimize the waste generated and select the cost-effective management method that is available to me and that I can afford to implement.						
Printed/Typed Name		Signature		Date		
GARU H. WILSON (AKA) 425 Merrick Ave		[Signature]		Month Day Year 06 20 98		
17. Transporter 1 Acknowledgment or receipt of Materials		Signature		Date		
Printed/Typed Name		Signature		Date		
Jim Ives		[Signature]		Month Day Year 06 20 98		
18. Transporter 2 Acknowledgment or receipt of Materials		Signature		Date		
Printed/Typed Name		Signature		Date		
				Month Day Year . . .		
19. Discrepancy Indication Space						
None received 36250 LBS at 25 tons						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 18.						
Printed/Typed Name		Signature		Date		
James H. Wilson		[Signature]		Month Day Year 07 29 98		

CONTROL COPY

The Environmental Quality Company
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1068382
EQ Account #: 2614
Manifest: BOLNH002
Shipper:
Hauler: HORWITH
Date: 7/9/98
Time In: 8:06 AM
Time Out: 9:05 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	062598WA	NYD013590955	425 MERRICK AVE. PRP GROUP					
		NHCS	TONS		88.420	32.140	56.280	28.140
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk.
I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability
not caused by its gross negligence or willful misconduct.

DELIVERED BY

BILL OF LADING		1. Customer's US EPA ID No. NFD013590955	Document No. NH003	2. Page 1	Information in the shaded areas is not required by Federal law.	
3. Customer's Name and Mailing Address 425 Merrick Ave PRP Group 425 Merrick Ave				A. Document Number NH003		
4. Phone (506) 241-7600 Woburn, MA 01890				B. State ID Same		
5. Transporter 1 Company Name Woburn Trucks, Inc.		US EPA ID Number P.A.D. 04671.457.8		C. State Transporter's ID NY-1A-263		
7. Transporter 2 Company Name		US EPA ID Number		D. Transporter's Phone 800-220-780		
9. Designated Facility Name and Site Address Waste Disposal Inc 10350 N. 1st St. Woburn, MA Woburn, MA 01890		US EPA ID Number P.A.D. 04671.457.8		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID Same		
				H. Facility's Phone 800-592-5489		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol
a. HM				No.	Type	L Waste No.
b. 2005 Soil Product, T.O.S.				CO-1	DTXKX-2.5T	-
c. 100 DOT 120-2004 Hazardous						
d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
a) Soil containing trace levels of mercury						
15. Special Handling Instructions and Additional Information						
Special # 06-3598-7						
16. CUSTOMER CERTIFICATION: I hereby declare that the contents of this assignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.						
I am a large quantity generator. I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR I am a small quantity generator. I have made good faith effort to minimize my waste generation and select the best waste management treatment that is available to me and will carry it off.						
Printed/Typed Name GARY H. WILLIAMS of ALCOA SERVICE AND MELISSA R. ABENT of 425 MERRICK AVE PRP GROUP				Signature GARY H. WILLIAMS		Date 07/15/98
17. Transporter 1 Acknowledgment of receipt of Materials				Signature Dave Hemmeyer		Date 07/30/98
18. Transporter 2 Acknowledgment of receipt of Materials				Signature		Date
Printed/Typed Name				Signature		Date
19. Discrepancy Indication Space						
Waste received 48000 lbs at 2400						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19						
Printed/Typed Name James H. V. Gress				Signature James H. V. Gress		Date 07/15/98

CONTROL COPY

WAYNE DISPOSAL, INC.
The Environmental Quality Company
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1068223
EQ Account #: 2614
Manifest: NH003
Shipper:
Hauler: HORWITH
Date: 7/1/98
Time In: 11:30 AM
Time Out: 12:50 PM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	062598WA	NYD013590955	425	MERRICK AVE. PRP GROUP				
		NHCS	TONS		80,580	32,580	48,000	24.000
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk.
I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability
not caused by its gross negligence or willful misconduct.

DELIVERED BY

BILL OF LADING		1. Customer's US EPA ID No. VT 0013540955	Document No. N4004	2. Page 1	Information in the shaded areas is not required by Federal law.		
3. Customer's Name and Mailing Address 435 DENNIS AVE 435 DENNIS AVE WANTHOUGH, VT 05940				A. Document Number N4004			
				B. State ID Same			
4. Phone (516) 244-7000				C. State Transporter's ID NY-24-213			
5. Transporter 1 Company Name WANTHOUGH TRUCKS INC				D. Transporter's Phone 800-220-8907			
6. Transporter 2 Company Name				E. State Transporter's ID			
7. Transporter 2 Company Name				F. Transporter's Phone			
8. Designated Facility Name and Site Address Waste Disposal, Inc. 1550 N. S-City Service Drive Bellingham, WA 98225				G. State Facility's ID Same			
9. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) MT 004.827.0.6.33				H. Facility's Phone 800-542-5489			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers		13. Total Quantity	14. Unit Weight
				No.	Type		
a. Waste Soil Portion, 10.5. PUN-DOT 1000 BOLT Warranties				1001	DT	MT 1.25	T
b.				.	.	.	.
c.				.	.	.	.
d.				.	.	.	.
J. Additional Descriptions for Materials Listed Above all soil containing trace levels of mercury				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Approved by 0635 WOH Tw-56496 PA							
16. CUSTOMER CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classed, packed, marked, and labeled, and in all respects in proper condition for transport by highway according to applicable Federal and State Government regulations. I am a responsible generator, carrier, or have a program in place to reduce the volume and toxicity of waste generated to the correct level as determined to be economically practicable and that I have covered the applicable limited liability coverage, or excess, currently in force and which authorizes the present consignment to be transported in the environment. I hereby certify that I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and least cost to me.							
Printed/Typed Name EARLY A. WILLIAMS of PARCORS CERTIFICATION				Signature [Signature]		Date 06/30/98	
17. Transporter 1 Acknowledgement of receipt of Materials				Signature [Signature]		Date 06/30/98	
18. Transporter 2 Acknowledgement of receipt of Materials				Signature [Signature]		Date [Blank]	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Confirmation of receipt of hazardous materials covered by this manifest except as noted in Item 15. WDS Received 8/3/98 L-10 275							
Printed/Typed Name [Signature]				Signature [Signature]		Date 07/01/98	

CONTROL COPY

WAYNE DISPOSAL, INC.
The Environmental Quality Company
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE
BALDWIN, NY 11510

Receipt ID: 1068222
EQ Account #: 2614
Manifest: NH004
Shipper:
Hauler: HORWITH
Date: 7/1/98
Time In: 11:23 AM
Time Out: 12:42 PM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	062598WA	NYD013590955 425 MERRICK AVE. PRP GROUP	NHCS	TONS	83.800	30.360	53.440	26.720
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

BILL OF LADING		1. Customer's US EPA ID No.	Document No.	2. Page 1	Information in the shaded areas is not required by Federal law.
3. Customer's Name and Mailing Address 425 MILLER AVE PRP Group 425 MILLER AVE		Customer's US EPA ID No. NY0013590955	Document No. N4005	1	
4. Phone (FAX) 1-800-400-1159		5. Transporter 1 Company Name Hazardous Waste	6. State ID Same	A. Document Number N4005	
5. Transporter 1 Company Name Hazardous Waste		6. State ID Same	C. State Transporter's ID NY-PA-263		
7. Transporter 2 Company Name		7. Transporter 2 Company Name	D. Transporter's Phone 800-220-8807		
8. Designated Facility Name and Site Address Waste Disposal Inc. 4250 N. 15th St. Erie Pa 16540		9. US EPA ID Number PA-21-46-71-4378	E. State Transporter's ID		
9. US EPA ID Number PA-21-46-71-4378		F. Transporter's Phone			G. State Facility's ID Same
10. US EPA ID Number PA-21-46-71-4378		H. Facility's Phone 800-542-5489			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit WUVO	15. Waste No.
a. Waste Soil Material, High Non-Low / Non-Risk Hazardous		00.101	1	1	
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above a) Soil containing trace levels of metals		K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Approved # 3065184A		TV 34557			
16. CUSTOMER CERTIFICATION: I hereby declare that the contents of this Consignment are fully and accurately described above by proper shipping name and are classified, packed, labeled, and used in all respects in a proper condition for transport by highway according to applicable international and national government regulations. I am a large quantity generator, or I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal, readily available to me which minimizes the present and future threat to human health and the environment. OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and believe the best waste management method that is available to me and that I am using.					
Printed/Typed Name LARRY WILLIAMS OF ARKADIA GROUP INC ATTN: ALBERT OF 425 MILLER AVE PRP Group		Signature L. H. W.	Date 07/01/98		
17. Transporter 1 Acknowledgement of receipt of Materials Printed/Typed Name JEFFREY WELLS		Signature Jeffrey Wells	Date 07/01/98		
18. Transporter 2 Acknowledgement of receipt of Materials Printed/Typed Name		Signature	Date		
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					
Printed/Typed Name JAMES A. GROSS		Signature	Date 07/02/98		

CONTROL COPY

WAYNE DISPOSAL, INC.

The Environmental Quality Company

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2103 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1068260
EQ Account #: 2614
Manifest: BOLNH005
Shipper:
Hauler: HORWITH
Date: 7/2/98
Time In: 9:22 AM
Time Out: 11:15 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	062598WA	NYD013590955	425	MERRICK AVE. PRP GROUP				
		NHCS	TONS		82,720	31,720	51,000	25.500
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

4672

BILL OF LADING		1. Customer's US EPA ID No.	Document No.	2. Page 1	Information in the shaded areas is not required by Federal law.		
3. Customer's Name and Mailing Address		NYDO13590955		NH006			
425 Merrick Ave PRP Group 425 Merrick Ave				A. Document Number		NH006	
4. Phone 516-247-3600 Westbury, NY 11590				B. State ID		Same	
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID		NY-PA-263	
Harwell Trucks Inc		EPA ID: 4.4.7.1.4.2.3		D. Transporter's Phone		800-220-8807	
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		G. State Facility's ID		Same	
Wegmans Disposal, Inc 71350 N. I-19 Service Drive Bristol, MI 48111		M.I.D.C. 48.4.7.0.6.3.3		H. Facility's Phone		800-592-5489	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol	
HM		No. Type				L Waste No.	
a. Waste Soil Mixture, MOIS.		6001 DOT 4.4.7.1.4.2.3		T			
b. Non-DOT / Non-HAZARDOUS							
c.							
d.							
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above					
A) Soil Contaminated with trace levels of Mercury.							
15. Special Handling Instructions and Additional Information							
Approved #CE2518WA Teller Plot # X461007 PA							
16. CUSTOMER CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If it is a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR it is a small quantity generator. I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name		Signature		Month		Day Year	
CAROL WELSH OF HARVEST HEALTHY		[Signature]		07		10 1998	
17. Transporter 1 Acknowledgment of receipt of Materials		Signature		Month		Day Year	
[Signature]		[Signature]		07		10 1998	
18. Transporter 2 Acknowledgment of receipt of Materials		Signature		Month		Day Year	
[Signature]		[Signature]		.		. .	
19. Discrepancy Indication Space							
W.D. 223 3100 6270 LBS - 3100 LBS * OK PER ROS AT BROOKSIDE ENV.							
20. Facility Owner or Operator: Certification at receipt of hazardous materials covered by this manifest as noted in item 19.		Signature		Month		Day Year	
James M. Conroy		[Signature]		07		10 1998	

CONTROL COPY

The Environmental Quality Company
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1068288
EQ Account #: 2614
Manifest: BOLNH006
Shipper:
Hauler: HORWITH
Date: 7/6/98
Time In: 9:47 AM
Time Out: 10:35 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	062598WA	NYD013590955	425 MERRICK AVE. PRP GROUP					
		NHCS	TONS		94.820	31.900	62.920	31.460
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

CONTROL COPY

WAYNE DISPOSAL, INC.

The Environmental Quality Company

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1068289
EQ Account #: 2614
Manifest: BOLNH007
Shipper:
Hauler: HORWITH
Date: 7/6/98
Time In: 9:55 AM
Time Out: 10:39 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	062598WA	NYD013590955	425 MERRICK AVE. PRP GROUP					
		NHCS	TONS		92,200	33,000	59,200	29.600
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

TRL# 147

BILL OF LADING		1. Customer's US EPA ID No. NHD013590755	Document No. NH008	2. Page 1 1	Information in the shaded areas is not required by Federal Law.
3. Customer's Name and Mailing Address 425 Main St 425 Main St NY 11570			A. Document Number NH008		
4. Phone () 516-495-7100			B. State ID Same		
5. Transporter 1 Company Name H. W. & S. Co.			C. State Transporter's ID NY-PA-263		
7. Transporter 2 Company Name			D. Transporter's Phone 800-220-APC7		
9. Designated Facility Name and Site Address Waste Management Inc. 44330 Rte 44 Spartanburg, SC 29581			E. State Transporter's ID		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) Hazardous Waste, Corrosive, Liquid, Aqueous Solution, pH 1-2, 6.1, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77					

The Environmental Quality Company
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
 2103 GRAND AVE.
 BALDWIN, NY 11510

Receipt ID: 1068386
EQ Account #: 2614
Manifest: NH008
Shipper:
Hauler: HORWITH
Date: 7/9/98
Time In: 9:25 AM
Time Out: 10:06 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	062598WA	NYD013590955	425	MERRICK AVE. PRP GROUP				
		NHCS	TONS		105,480	32,820	72,660	38,330
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

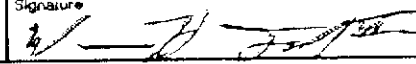
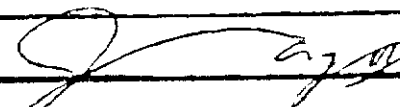
 DELIVERED BY

Brookside Environmental, Inc.

577 28360

210 Grand Avenue, Baldwin, New York 11510
(516) 377-6300 • Fax (516) 377-6846

Transporter Permit #1A-644
EPA ID #NYR000081661

NON-HAZARDOUS MANIFEST		1. Customer's US EPA ID NO. NYD013590955	Document No. NH014		2. Page 1 1
3. Customer's Name and Mailing Address 425 Merrick Avenue PRP Group 425 Merrick Avenue Westbury, NY 11590			A. Document Number NH014		
4. Phone (516) 249-7600			B. State ID Same		
5. Transporter 1 Company Name Horwith Trucks, Inc.		6. US EPA ID Number PA.D1.4.6.7.1.4878	C. State Transporter's ID NY PA-263		
7. Transporter 2 Company Name		8. US EPA ID Number	D. Transporter's Phone 800 220 8807		
9. Designated Facility Name and Site Address Wayne Disposal, Inc. 49350 N. I-94 Service Dr. Belleville, MI 48111		10. US EPA ID Number MID.048.0.9.0.633	E. State Transporter's ID		
			F. Transporter's Phone		
			G. State Facility's ID Same		
			H. Facility's Phone 800-592-5489		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Waste Soil Mixture, NOS NON-DOT/NON-RCRA Regulated		0.0.1 DT	XXX.25	T	—
b.					
c.					
d.					
16. Additional Descriptions for Materials Listed Above a) Soil Containing Trace levels of metals		K. Handling Codes for Wastes Listed Above			
17. Special Handling Instructions and Additional Information Approval #062598 WA Trailer Plate # XA60931(PA)					
18. CUSTOMER CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.					
Printed / Typed Name Richard Roman		Signature 		DATE Month Day Year 07/06/00	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature 		DATE Month Day Year 07/10/00	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		DATE Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in item 19.					
Printed / Typed Name James A. Vignar		Signature 		DATE Month Day Year 07/10/00	

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WAYNE DISPOSAL, INC
EQ-The Environmental Quality Company
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1091399
EQ Account #: 2614
Manifest: NH014
Shipper:
Hauler: HORWITH
Date: 07/10/2000
Time In: 8:54 AM
Time Out: 10:53 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	062598WA	NYD013590955	425	MERRICK AVE. PRP GROUP				
		NHCS		TONS	78,360	30,560	47,800	23.900
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

NO SALVAGING ON PREMISES

Brookside Environmental, Inc.

8 Grand Avenue, Baldwin, New York 11510
(516) 377-6300 • Fax (516) 377-6846

Transporter Permit #1A-644
EPA ID #NYR000081661

NON-HAZARDOUS MANIFEST		1. Customer's US EPA ID No. NYD013590955	Document No. NH013	2. Page 1
3. Customer's Name and Mailing Address 425 Merrick Avenue PRP Group 425 Merrick Ave. Westbury, NY 11590		A. Document Number NH013		
4. Phone 516 249-7600		B. State ID Same		
5. Transporter 1 Company Name Horwith Trucks Inc.		C. State Transporter's ID NY-PA-263		
6. US EPA ID Number PAD 146714878		D. Transporter's Phone 800-220-8807		
7. Transporter 2 Company Name		E. State Transporter's ID		
8. US EPA ID Number		F. Transporter's Phone		
9. Designated Facility Name and Site Address Wayne Disposal, Inc. 49350 N.I.-94 Service Dr. Bellefonte, MI 48111		G. State Facility's ID Same		
10. US EPA ID Number MID048090633		H. Facility's Phone 800-592-5489		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. Waste Soil Mixture NOS NON-DOT/NON-RCRA Regulated		0.01 DT	XX 25	T
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WASTE DISPOSAL, INC.

EQ-The Environmental Quality Company

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE
BALDWIN, NY 11510

Receipt ID: 1091286
EQ Account #: 2614
Manifest: NH013
Shipper:
Hauler: horwith
Date: 07/07/2000
Time In: 8:22 AM
Time Out: 9:47 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	062508WA	HYD013590955	425 MERRICK AVE. PRP GROUP					
		NHCS	TONS		77,480	32,600	44,880	22.440
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk.
I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability
not caused by its gross negligence or willful misconduct.

DELIVERED BY

NO SALVAGING ON PREMISES

Brookside Environmental, Inc.

72260

553

108 Grand Avenue, Baldwin, New York 11510
(516) 377-6300 • Fax (516) 377-6846

Transporter Permit #1A-644
EPA ID #NYR000081661

NON-HAZARDOUS MANIFEST		1. Customer's US EPA ID NO. NYD013590955	Document No. NH012	2. Page 1 1	
3. Customer's Name and Mailing Address 425 Merrick Avenue PRP Group 425 Merrick Ave Westbury, NY 11590			A. Document Number NH012		
4. Phone (516) 249-7600			B. State ID Same		
5. Transporter 1 Company Name Horwith Trucks Inc.			C. State Transporter's ID NY-PA-263		
6. US EPA ID Number IPAD-1467-14878			D. Transporter's Phone 800-220-8807		
7. Transporter 2 Company Name 			E. State Transporter's ID 		
8. US EPA ID Number 			F. Transporter's Phone 		
9. Designated Facility Name and Site Address Wayne Disposal, Inc. 49350 N. I-94 Service Dr. Belleville, MI 48111			G. State Facility's ID Same		
10. US EPA ID Number MID048090633			H. Facility's Phone 800-592-5489		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Waste Soil Mixture NOS. Non-DOT/Non-RCRA Regulated		0.01 DT XXX	20	T	—
b. 					
c. 					
d. 					
J. Additional Descriptions for Materials Listed Above a.) Soil Containing trace levels of metals		K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Approval # 062598 WA Trailer Plate # Ty80224					
16. CUSTOMER CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, as required in all respects in proper condition for transport by highway according to applicable international and national government regulations.					
Printed / Typed Name Rudolph Bowman as agent for 425 Merrick Ave PRP Group		Signature <i>[Signature]</i>		DATE Month Day Year 0-7 0-6 0-0	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>[Signature]</i>		DATE Month Day Year 0-7 0-6 0-0	
Printed / Typed Name Kenneth Kemmerer		Signature <i>[Signature]</i>		DATE Month Day Year 0-7 0-6 0-0	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature <i>[Signature]</i>		DATE Month Day Year 0-7 0-6 0-0	
Printed / Typed Name 		Signature <i>[Signature]</i>		DATE Month Day Year 0-7 0-6 0-0	
19. Discrepancy Indication Space Section is changed per Dick Taylor Approval 7/10/00					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.					
Printed / Typed Name James A. Vigano		Signature <i>[Signature]</i>		DATE Month Day Year 0-7 0-6 0-0	

EQ-The Environmental Quality Company
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

BROOKSIDE ENVIRONMENTAL, INC
2108 GRAND AVE
BALDWIN, NY 11510

Receipt ID: 1091269
EQ Account #: 2614
Manifest: NH012
Shipper:
Hauler: norwith
Date: 07/07/2000
Time In: 7:19 AM
Time Out: 7:47 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	062598WA	NYD013590955	425	MERRICK AVE. PRP GROUP				
		NHCS		TONS	72,260	31,820	40,440	20.220
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

NO SALVAGING ON PREMISES

Brookside Environmental, Inc.

2108 Grand Avenue, Baldwin, New York 11510
(516) 377-6300 • Fax (516) 377-6846

Transporter Permit #1A-644
EPA ID #NYR000081661

NON-HAZARDOUS MANIFEST		1. Customer's US EPA ID NO. NYD013590255	Document No. NH001	2. Page 1
3. Customer's Name and Mailing Address 425 Merrick Avenue PRP Group 425 Merrick Avenue Westbury, NY 11590		A. Document Number NH001		
4. Phone 516 249-7600		B. State ID Same		
5. Transporter 1 Company Name Horwith Trucks, Inc.		C. State Transporter's ID NY-PA-363		
6. US EPA ID Number IPAD.1467.14.8.78.		D. Transporter's Phone 800-220-8807		
7. Transporter 2 Company Name		E. State Transporter's ID		
8. US EPA ID Number		F. Transporter's Phone		
9. Designated Facility Name and Site Address Wayne Disposal, Inc. - site #2 Lardail 49350 N. B-94 Service Dr. Bellefonte, PA 16811		G. State Facility's ID Same		
10. US EPA ID Number MID0480.9.0633.		H. Facility's Phone 800-592-5489		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
Waste Soil Mixture, M.S. Non-DOT/Non-RCRA Regulated		0.0	1 DT XXX.25	T
15. Additional Descriptions for Materials Listed Above a.) Soil Containing trace levels of metals		K. Handling Codes for Wastes Listed Above		
16. Special Handling Instructions and Additional Information Approval # 062598 WA		Trailer Plate # XH472411 (PA) ~~AE 30241 R~~		
17. CUSTOMER CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled as are in all respects in proper condition for transport by highway according to applicable international and national government regulations.		DATE: Month Day Year 10.7.06 b.c		
Printed / Typed Name Rudolph Bowman		Signature <i>[Signature]</i>		
17. Transporter 1 Acknowledgement of Receipt of Materials		DATE: Month Day Year 10.7.06 b.c		
Printed / Typed Name Elliot MacDonald		Signature <i>[Signature]</i>		
18. Transporter 2 Acknowledgement of Receipt of Materials		DATE: Month Day Year		
Printed / Typed Name		Signature		
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Confirmation of receipt of waste materials covered by this manifest except as noted herein 19		DATE: Month Day Year 10.7.07 0.		
Printed / Typed Name Charles Ricks		Signature <i>[Signature]</i>		

EQ-The Environmental Quality Company
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE
BALDWIN, NY 11510

Receipt ID: 1091271
EQ Account #: 2614
Manifest: NH011
Shipper:
Hauler: horwith
Date: 07/07/2000
Time In: 7:27 AM
Time Out: 8:01 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	082598WA	NYD013590955	425	MERRICK AVE. PRP GROUP				
		NHCS		TONS	77,820	31,560	46,260	23.130
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk.
I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability
not caused by its gross negligence or willful misconduct

DELIVERED BY

NO SALVAGING ON PREMISES

Brookside Environmental, Inc.

100 Grand Avenue, Baldwin, New York 11510
516 377-6300 • Fax (516) 377-6846

Transporter Permit #1A-644
EPA ID #NYR000081661

NON-HAZARDOUS MANIFEST		1. Customer's US EPA ID NO. NYD013590955	Document No. NH009		2. Page 1 1
3. Customer's Name and Mailing Address 425 Merrick Avenue PRP Group 425 Merrick Avenue Westbury, NY 11590			A. Document Number NH009		
4. Phone (516) 249-7600			B. State ID SAME		
5. Transporter 1 Company Name Horwith Trucks Inc.		6. US EPA ID Number PAD146.7.14.878		C. State Transporter's ID NY-PA-263	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 800-220-8307	
9. Designated Facility Name and Site Address Wayne Disposal, Inc. 49350 N. I-94 Service Dr. Belleville, MI 48111		10. US EPA ID Number MIED048.0906.33		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility's ID SAME	
				H. Facility's Phone 800-592-5489	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. Waste Soil Mixture, n.o.s. NON-DOT/NON-RCRA Regulated			0.01 DT	XXX25	T
b.					
c.					
d.					
12. Additional Descriptions for Materials Listed Above a) Soil containing trace levels of metals			K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information Approval # 062598WA			Trailer plate (PA)-AE-35659		
16. CUSTOMER CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable International and national government regulations.					
Printed / Typed Name Rudolph Bowman			Signature <i>Rudolph Bowman</i>		DATE Month Day Year 10.7.05
17. Transporter 1 Acknowledgement of Receipt of Materials			Signature <i>Bill Cassin</i>		DATE Month Day Year 10.7.05
Printed / Typed Name Bill Cassin			Signature		DATE
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		DATE
Printed / Typed Name			Signature		DATE
19. Discrepancy Indication Space					
Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted herein: 18					
Printed / Typed Name Chad Ricks			Signature <i>Chad Ricks</i>		DATE Month Day Year 10.7.06

GENERATOR

TRANSPORTER

FACILITY

DATE

WAYNE DISPOSAL, INC
EQ-The Environmental Quality Company
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2103 GRAND AVE
BALDWIN, NY 11510

Receipt ID: 1091233
EQ Account #: 2614
Manifest: NH009
Shipper:
Hauler: HORWITH
Date: 07/06/2000
Time In: 8:45 AM
Time Out: 9:57 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	062598WA	NYD013590955	425	MERRICK AVE, PRP GROUP				
		NHCS		TONS	81,900	32,940	48,960	24.480
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

NO SALVAGING ON PREMISES

Brookside Environmental, Inc.

08 Grand Avenue, Baldwin, New York 11510
16) 377-6300 • Fax (516) 377-6846

Transporter Permit #1A-644
EPA ID #NYR000081661

NON-HAZARDOUS MANIFEST		1. Customer's US EPA ID NO. NYD013590955	Document No. NH000	2. Page 1
3. Customer's Name and Mailing Address 425 Merrick Avenue PRP Group 425 Merrick Avenue Westbury, NY 11590			A. Document Number NH000	B. State ID Same
4. Phone (516) 249-7600	5. Transporter 1 Company Name Howitt Tractor Inc.	6. US EPA ID Number PAD146714878	C. State Transporter's ID NY-PA-263	D. Transporter's Phone 800-220-8801
7. Transporter 2 Company Name	8. US EPA ID Number	9. Designated Facility Name and Site Address Wayne Disposal Inc. 49350 N. I-94 Service Dr. Belleville, MI 48111	E. State Transporter's ID	F. Transporter's Phone
	10. US EPA ID Number		G. State Facility's ID Same	H. Facility's Phone 800-592-5489
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
Waste Soil Mixture N.O.S. Non-DOT / No N-Reg A Regulated		0.01 DT XXX.25 T		
J. Additional Descriptions for Materials Listed Above a) Soil containing trace levels of metals		K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information Approval # 062598 WA Trailer Plate # AE-35700 (PA)				
16. CUSTOMER CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.				
Printed / Typed Name Kathleen Bowman		Signature [Signature]		DATE Month Day Year 10-7-05 10-0
17. Transporter 1 Acknowledgement of Receipt of Materials Printed / Typed Name John Reed		Signature [Signature]		DATE Month Day Year 10-10-05 100
18. Transporter 2 Acknowledgement of Receipt of Materials Printed / Typed Name		Signature		DATE Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in item 19. Printed / Typed Name [Signature]				
DATE Month Day Year 10-10-05 100				

GENERATOR

TRANSPORTER

LIABILITY

550 31620

WAYNE DISPOSAL, INC
EQ-The Environmental Quality Company
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

BROOKSIDE ENVIRONMENTAL, INC.
2108 GRAND AVE.
BALDWIN, NY 11510

Receipt ID: 1091245
EQ Account #: 2614
Manifest: NH010
Shipper:
Hauler: HORWITH
Date: 07/06/2000
Time In: 10:52 AM
Time Out: 11:19 AM

Line#	Approval/Service	Generator	Waste Code	Bill Unit	Gross	Tare	Net	Quantity
01	062598WA	NYD013590955	425	MERRICK AVE. PRP GROUP				
		NHCS		TONS	81.620	32.340	49.280	24.640
		Perpetual Care Surcharge						

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

DELIVERED BY

NO SALVAGING ON PREMISES

Page 1 of 1



State of New Jersey
Department of Environmental Protection
Hazardous Waste Regulation Program
Manifest Section
CN 421, Trenton, NJ 08625-0421

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-97

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NJ 1201259005568056		Manifest Document No. 2		2. Page 1 of 2		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address PRP GROUP 410 Brookside Environmental 2108 GRAND AVE BALWIN NY 11510				A. State Manifest Document Number NJA 2966645							
4. Generator's Phone () 516 391-5235				B. State Generator's Facility (Gen Site) Address 425 HERBERT AVE WESTBURY, NY 11590							
5. Transporter 1 Company Name ADVANCED ENVIR TECH SVCS(AETS)				6. US EPA ID Number NJ D 060831369		C. State Trans. ID-NJDEP NJDEP50160-83444					
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone () 973 347-7111					
9. Designated Facility Name and Site Address ADVANCED ENVIRONMENTAL TECHNICAL SERVICES 1 EDEN LANE FLANDERS, NJ 07836				10. US EPA ID Number NJ D 06083136593		E. State Trans. ID-NJDEP					
						F. Transporter's Phone ()					
						G. State Facility's ID N/A					
						H. Facility's Phone () 973 347-1909					
11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group) HV				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. WASTE AEROSOLS, FLAMMABLE, (EACH NOT EXCEEDING 1 L CAPACITY) 2.1.UN1950				001 DF		00010		P		D001	
b. COMPRESSED GASES, n.l.s., (CARBON DIOXIDE) 2.2.UN1958				001 DF		00020		P		X905	
c. WASTE FLAMMABLE SOLIDS, ORGANIC, n.l.s., 4.1.UN1225.II				002 UN		00400		P		D001	
d. TOXIC SOLID, INORGANIC, n.l.s., (BERYLLIUM) 8.1.UN3288.II				001 LF		00010		P		X910	
16. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above							
G-1 AEROSOL PAINTS				S-1 PAINT, RESINS, ROOFING				NY-2			
G-2 FIRE EXTINGUISHER				S-2 PLC				NY-2			
17. Special Handling Instructions and Additional Information PACKING SLIPS ATTACHED FOR CLASSIFICATION EMERGENCY PHONE 888 266-2387 NY 0410 NJ LIC#L23028 X910 & X905 REGULATED BY NJ DEP ONLY											
18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and used the best waste management method that is available to me and that I can afford.											
Printed/Typed Name				Signature				Month Day Year			
X								12/13/98			
19. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature				Month Day Year			
C. J. K...								12/13/98			
20. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature				Month Day Year			
21. Discrepancy Indication Space											
22. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19											
Printed/Typed Name				Signature				Month Day Year			

8-GENERATOR COPY

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

NJA 2966645

Please print or type (Form designed for use on elite 112-pin dot-matrix printer)

UNIFORM HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

Generator's US EPA ID No: **NYD013590955** Manifest Document No: **68656** Page: **2 of 2**

Generator's Name: **PRP GROUP**
40 Brookside Environmental
(516) 391-5235

2108 GRAND AVE
BALDWIN, NY 11510

State Manifest Document Number: **NJA2966645**

State: **425 MERRICK AVE.**
WESTBURY, NY 11590

Transporter 1 Company Name: **ADVANCED ENVIR TECH SRVS(AETS)** US EPA ID Number: **NJD080631369**

Transporter 2 Company Name: US EPA ID Number:

State Trans. ID: **NJDEP50160-83444**

Trans. Phone: **973 347-7111**

State Trans. ID: Trans. Phone:

28 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	29 Containers	30 Qty	31 Unit	32 Waste No.
a ☒ RQ WASTE MERCURY X 8.UN2809.III	002	DF	00160	P D009
b ☒ RQ POLYCHLORINATED BIPHENYLS X 9.UN2315.III	002	DM	~~00160~~ 00182	K ~~P~~ PCB1
c OIL AND WATER MIXTURE DOT NON-REGULATED,NONE	001	DM	00150	P ID72
d NON REGULATED DOT NON REGULATED DOT NON-REGULATED,NONE	006	DM	01400	P X910
e CHEMICALS, n.o.s. DOT NON-REGULATED,NONE	001	DF	00035	P X910
f				
g				
h				
i				

5. Additional Descriptions for Materials Listed Above:
A)L/E B)L/- LARGE CAPACITORS B004 C)L/- D)S/-
E)S/-

Handling Codes for Wastes Listed Above:
a. NY=R d NY=L
b. NY=B e NY=C

32 Special Handling Instructions and Additional Information:
PACKING SLIPS ATTACHED FOR CLARIFICATION EMERGENCY PHONE 888 353-2387
NYJA410 NJ LIC#XZ82EE
ID72 & X910 REGULATED BY NJDEP ONLY

33 Transporter 1 Acknowledgement of Receipt of Materials:
Printed/Typed Name: **Christopher Zeliff** Signature: *Christopher Zeliff* Date: **09/30/98**

34 Transporter 2 Acknowledgement of Receipt of Materials:
Printed/Typed Name: Signature: Date:

35 Discrepancy Indication Space:

ASTOWA

TRUCKING CO. INC.

EPA
REGION II
26 FEDERAL PLAZA
NEW YORK, NY 10278

- WASTE MANIFEST -

84F HORSEBLOCK RD.
YAPHANK, N.Y. 11980
PHONE 516-345-3705
FAX 516-345-5863
EPA NYD 982791352

LICENSE PLATE # Astowa 5

DATE 7/23/97

CUSTOMER ID # Asbestos Seal

GENERATOR NAME/ADDRESS

INVOICE # WAB

GENERATED LOCATION OF MATERIAL

425 Marick (Westbury, NY)

GENERATOR SITE SUPERVISOR A

SITE PHONE

GENERATED LOCATION SITE SUPERVISOR

TRAILER OR CONTAINER #

DATE SPOTTED

QUANTITY 2 yds.

SERVICE PROVIDED TRANSPORT & DISPOSE OF RG HAZARDOUS SUBSTANCE SOLID, N.O.S. (ASBESTOS) ORM-E NA 9188

TRANSPORTER

1. Astowa Trucking Company Inc. 84F Horseblock Road Yaphank, New York 11980

2. NAME (Supervisor) TAMMY MOORE

PHONE # 516-345-3705

3. DATE OF THE LOAD PICKUP 7/23/97 TIME OF THE LOAD PICKUP

4. DRIVERS NAME Pete Grosso

DRIVERS SIGNATURE [Signature]

TRANSPORTER DELIVERY SCHEDULE

1. DATE OF THE DELIVERY 7-25-97 TIME OF THE DELIVERY 3pm

2. DRIVERS NAME DANIEL BELL DRIVERS SIGNATURE [Signature]

DISPOSAL FACILITY - LANDFILL

1. LANDFILL NAME/ADDRESS/STATE/PERMIT #

Meadowfield Landfill
Box 2 Box 68
Bridgport, WVA
1032-92

2. DELIVERY RECEIVED DATE 7/25/97

3. TIME OF DELIVERY 3pm

4. SUPERVISOR INSPECTOR [Signature]

5. INSPECTOR SIGNATURE [Signature]

6. THE LOAD WAS RECEIVED AS STATED BY THE GENERATOR YES NO

7. REJECTED LOAD - YES NO

IF YES, PLEASE REMARK

GENERATOR'S CERTIFICATION. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. E.P.A. and the N.Y.S. DEC. THE WASTE DESCRIBED ABOVE WAS APPROVED FOR DISPOSAL AT LANDFILL, BASED ON THE AGREEMENT BETWEEN BOTH THE GENERATOR AND THE DISPOSAL FACILITY. I certify that the foregoing is true and correct to the best of my knowledge. If the waste shipment is not as stated I accept the RETURN of the COMPLETE LOAD to the generator's service location, at the generator's expense.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	AEN ID:	Method Blank (08/01)
Project:	Sample:	
Report Date: 08/06/97	Type:	Soil
Collected:	Container:	
Received:		
Analyzed: 08/01/97	Dilution Factor:	1
By: GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 96 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

Corresponding Samples: 0070-487-01, 0070-487-02

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-487-01
Project:	7097-1788A	Sample:	GP2
Report Date:	08/06/97	Type:	Soil
Collected:	07/25/97	Container:	Glass
Received:	07/30/97		
Analyzed:	08/01/97	Dilution Factor:	1.1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1.1	BQL
2	n-Butylbenzene	1.1	BQL
3	s-Butylbenzene	1.1	BQL
4	t-Butylbenzene	1.1	BQL
5	Ethylbenzene	1.1	BQL
6	Isopropylbenzene	1.1	BQL
7	Isopropyltoluene	1.1	BQL
8	Methyl-t-butylether	1.1	BQL
9	Naphthalene	1.1	BQL
10	n-Propylbenzene	1.1	BQL
11	Toluene	1.1	BQL
12	1,2,4-Trimethylbenzene	1.1	BQL
13	1,3,5-Trimethylbenzene	1.1	BQL
14	Xylenes (Total)	1.1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 85 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-487-02
Project:	7097-1788A	Sample:	FB 072597
Report Date:	08/06/97	Type:	Water
Collected:	07/25/97	Container:	VOA
Received:	07/30/97		
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL (ug/L)	Result (ug/L)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 95 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:
Project:
Report Date: 08/06/97
Collected:
Received:
Analyzed: 08/01/97
By: GAM

AEN ID: Method Blank (08/01)
Sample:
Type: Soil
Container:

Dilution Factor: 1

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 96 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

Corresponding Samples: 0070-488-01, 0070-488-02, 0070-488-03, 0070-488-04,
0070-488-05

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-488-01
Project:	7097-1788A	Sample:	GP-1 (SB Comp)
Report Date:	08/07/97	Type:	Soil
Collected:	07/29/97	Container:	Glass
Received:	07/31/97		
Analyzed:	08/01/97	Dilution Factor:	1.2
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1.2	BQL
2	n-Butylbenzene	1.2	BQL
3	s-Butylbenzene	1.2	BQL
4	t-Butylbenzene	1.2	BQL
5	Ethylbenzene	1.2	BQL
6	Isopropylbenzene	1.2	BQL
7	Isopropyltoluene	1.2	BQL
8	Methyl-t-butylether	1.2	BQL
9	Naphthalene	1.2	BQL
10	n-Propylbenzene	1.2	BQL
11	Toluene	1.2	BQL
12	1,2,4-Trimethylbenzene	1.2	BQL
13	1,3,5-Trimethylbenzene	1.2	BQL
14	Xylenes (Total)	1.2	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 89 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-488-02
Project:	7097-1788A	Sample:	TP V11-West
Report Date:	08/07/97	Type:	Soil
Collected:	07/29/97	Container:	Glass
Received:	07/31/97		
Analyzed:	08/01/97	Dilution Factor:	3.6
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	3.6	BQL
2	n-Butylbenzene	3.6	BQL
3	s-Butylbenzene	3.6	BQL
4	t-Butylbenzene	3.6	BQL
5	Ethylbenzene	3.6	BQL
6	Isopropylbenzene	3.6	BQL
7	Isopropyltoluene	3.6	BQL
8	Methyl-t-butylether	3.6	BQL
9	Naphthalene	3.6	BQL
10	n-Propylbenzene	3.6	BQL
11	Toluene	3.6	6
12	1,2,4-Trimethylbenzene	3.6	
13	1,3,5-Trimethylbenzene	3.6	
14	Xylenes (Total)	3.6	

Surrogate Standard Recovery:

1,4-Difluorobenzene 78 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-488-03
Project:	7097-1788A	Sample:	TP V11-North
Report Date:	08/07/97	Type:	Soil
Collected:	07/29/97	Container:	Glass
Received:	07/31/97		
Analyzed:	08/01/97	Dilution Factor:	1.2
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1.2	BQL
2	n-Butylbenzene	1.2	BQL
3	s-Butylbenzene	1.2	BQL
4	t-Butylbenzene	1.2	BQL
5	Ethylbenzene	1.2	BQL
6	Isopropylbenzene	1.2	BQL
7	Isopropyltoluene	1.2	BQL
8	Methyl-t-butylether	1.2	BQL
9	Naphthalene	1.2	BQL
10	n-Propylbenzene	1.2	BQL
11	Toluene	1.2	BQL
12	1,2,4-Trimethylbenzene	1.2	BQL
13	1,3,5-Trimethylbenzene	1.2	BQL
14	Xylenes (Total)	1.2	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 79 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-488-04
Project:	7097-1788A	Sample:	TP V11-Bottom
Report Date:	08/07/97	Type:	Soil
Collected:	07/29/97	Container:	Glass
Received:	07/31/97		
Analyzed:	08/01/97	Dilution Factor:	1.1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1.1	BQL
2	n-Butylbenzene	1.1	BQL
3	s-Butylbenzene	1.1	BQL
4	t-Butylbenzene	1.1	BQL
5	Ethylbenzene	1.1	BQL
6	Isopropylbenzene	1.1	BQL
7	Isopropyltoluene	1.1	BQL
8	Methyl-t-butylether	1.1	BQL
9	Naphthalene	1.1	BQL
10	n-Propylbenzene	1.1	BQL
11	Toluene	1.1	BQL
12	1,2,4-Trimethylbenzene	1.1	BQL
13	1,3,5-Trimethylbenzene	1.1	BQL
14	Xylenes (Total)	1.1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 77 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-488-05
Project:	7097-1788A	Sample:	FB-2
Report Date:	08/06/97	Type:	Water
Collected:	07/29/97	Container:	VOA
Received:	07/31/97		
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL (ug/L)	Result (ug/L)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 92 %

Comments:

PQL = Practical quantitation limit.
BQL = Below quantitation limit.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	AEN ID:	Method Blank (08/05)
Project:	Sample:	
Report Date: 08/07/97	Type:	Soil
Collected:	Container:	
Received:		
Analyzed: 08/05/97	Dilution Factor:	1
By: GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 72 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

Corresponding Samples: 0070-490-01, 0070-490-02, 0070-490-03

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-490-01
Project:	7097-1788A	Sample:	B-27
Report Date:	08/07/97	Type:	Soil
Collected:	07/30/97	Container:	Glass
Received:	08/04/97		
Analyzed:	08/05/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 70 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-490-02
Project:	7097-1788A	Sample:	B-24
Report Date:	08/07/97	Type:	Soil
Collected:	07/30/97	Container:	Glass
Received:	08/04/97		
Analyzed:	08/05/97	Dilution Factor:	1.1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1.1	BQL
2	n-Butylbenzene	1.1	BQL
3	s-Butylbenzene	1.1	BQL
4	t-Butylbenzene	1.1	BQL
5	Ethylbenzene	1.1	BQL
6	Isopropylbenzene	1.1	BQL
7	Isopropyltoluene	1.1	BQL
8	Methyl-t-butylether	1.1	BQL
9	Naphthalene	1.1	BQL
10	n-Propylbenzene	1.1	BQL
11	Toluene	1.1	BQL
12	1,2,4-Trimethylbenzene	1.1	BQL
13	1,3,5-Trimethylbenzene	1.1	BQL
14	Xylenes (Total)	1.1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 61 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-490-03
Project:	7097-1788A	Sample:	TP VII East
Report Date:	08/07/97	Type:	Soil
Collected:	07/30/97	Container:	Glass
Received:	08/04/97		
Analyzed:	08/05/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 67 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	Method Blank(08/05)
Project:		Sample:	
Report Date:	08/19/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/05/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 95 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

Corresponding Samples: 0070-492-01

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client: AEN-CT
Project: 7097-1788A
Report Date: 08/19/97
Collected: 07/30/97
Received: 08/05/97
Analyzed: 08/05/97
By: GAM

AEN ID: 0070-492-01
Sample: B-28
Type: Soil
Container: Glass

Dilution Factor: 1.2

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1.2	BQL
2	n-Butylbenzene	1.2	BQL
3	s-Butylbenzene	1.2	BQL
4	t-Butylbenzene	1.2	BQL
5	Ethylbenzene	1.2	BQL
6	Isopropylbenzene	1.2	BQL
7	Isopropyltoluene	1.2	BQL
8	Methyl-t-butylether	1.2	BQL
9	Naphthalene	1.2	BQL
10	n-Propylbenzene	1.2	BQL
11	Toluene	1.2	BQL
12	1,2,4-Trimethylbenzene	1.2	BQL
13	1,3,5-Trimethylbenzene	1.2	BQL
14	Xylenes (Total)	1.2	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 79 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

7097-1788A
GERAGHTY & MILLER
PAH'S

All values are ug/L.

Client Sample I.D.	Method Blank	FB-2		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKMH	971788A-10		
Method Blank I.D.	SBLKMH	SBLKMH		
Quant. Factor	1.00	1.00		
Naphthalene	U	U		10
2-Methylnaphthalene	U	U		10
Acenaphthylene	U	U		10
Acenaphthene	U	U		10
Fluorene	U	U		10
Phenanthrene	U	U		10
Anthracene	U	U		10
Fluoranthene	U	U		10
Pyrene	U	U		10
Benzo(a)anthracene	U	U		10
Chrysene	U	U		10
Benzo(b)fluoranthene	U	U		10
Benzo(k)fluoranthene	U	U		10
Benzo(a)pyrene	U	U		10
Indeno(1,2,3-cd)pyrene	U	U		10
Dibenzo(a,h)anthracene	U	U		10
benzo(g,h,i)perylene	U	U		10
Date Received		07/30/97		
Date Extracted	08/04/97	08/04/97		
Date Analyzed	08/15/97	08/15/97		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788A
GERAGHTY & MILLER
PAH'S

All values are ug/L.

Client Sample I.D.	Method Blank	FB 072597		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKYH	971788A-02		
Method Blank I.D.	SBLKYH	SBLKYH		
Quant. Factor	1.00	1.18		
Naphthalene	U	U		10
2-Methylnaphthalene	U	U		10
Acenaphthylene	U	U		10
Acenaphthene	U	U		10
Fluorene	U	U		10
Phenanthrene	U	U		10
Anthracene	U	U		10
Fluoranthene	U	U		10
Pyrene	U	U		10
Benzo(a)anthracene	U	U		10
Chrysene	U	U		10
Benzo(b)fluoranthene	U	U		10
Benzo(k)fluoranthene	U	U		10
Benzo(a)pyrene	U	U		10
Indeno(1,2,3-cd)pyrene	U	U		10
Dibenzo(a,h)anthracene	U	U		10
Benzo(g,h,i)perylene	U	U		10
Date Received		07/26/97		
Date Extracted	07/30/97	07/30/97		
Date Analyzed	08/15/97	08/15/97		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1788A
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	GP1 (SBCOMP)	TPVII W	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKIH	971788A-04	971788A-07	
Method Blank I.D.	SBLKIH	SBLKIH	SBLKIH	
Quant. Factor	1.00	1.06	1.11	
Naphthalene	U	U	U	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	U	U	U	330
Anthracene	U	U	U	330
Fluoranthene	U	U	U	330
Pyrene	U	U	U	330
Benzo(a)anthracene	U	U	U	330
Chrysene	U	U	U	330
Benzo(b)fluoranthene	U	U	U	330
Benzo(k)fluoranthene	U	U	U	330
Benzo(a)pyrene	U	U	U	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received		07/30/97	07/30/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/15/97	08/19/97	08/19/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor

Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1788A
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	TPVII W RE	TPVII N	TPVII N RE	Quant. Limits with no Dilution
Lab Sample I.D.	971788A-07RE	971788A-08	971788A-08RE	
Method Blank I.D.	SBLKIH	SBLKIH	SBLKIH	
Quant. Factor	1.11	1.22	1.22	
Naphthalene	U	U	U	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	U	U	U	330
Anthracene	U	U	U	330
Fluoranthene	U	U	U	330
Pyrene	U	U	U	330
Benzo(a)anthracene	U	U	U	330
Chrysene	U	U	U	330
Benzo(b)fluoranthene	U	U	U	330
Benzo(k)fluoranthene	U	U	U	330
Benzo(a)pyrene	U	U	U	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received	07/30/97	07/30/97	07/30/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/20/97	08/19/97	08/20/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788A
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	TPVII BTM	TPVII BTM RE	B-19	Quant. Limits with no Dilution
Lab Sample I.D.	971788A-09	971788A-09RE	971788A-15	
Method Blank I.D.	SBLKIH	SBLKIH	SBLKIH	
Quant. Factor	1.20	1.20	1.08	
Naphthalene	U	U	U	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	230J	270J	28J	330
Anthracene	64J	69J	6J	330
Fluoranthene	370J	430	68J	330
Pyrene	510	620	74J	330
Benzo(a)anthracene	190J	260J	37J	330
Chrysene	160J	170J	45J	330
Benzo(b)fluoranthene	180J	210J	37J	330
Benzo(k)fluoranthene	130J	160J	42J	330
Benzo(a)pyrene	160J	170J	42J	330
Indeno(1,2,3-cd)pyrene	U	U	34J	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	42J	330
Date Received	07/30/97	07/30/97	07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/19/97	08/20/97	08/19/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE SV-1.3
7097-1788A
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-27	B-27 RE	B-24	Quant. Limits with no Dilution
Lab Sample I.D.	971788A-16	971788A-16RE	971788A-17	
Method Blank I.D.	SBLKIH	SBLKIH	SBLKIH	
Quant. Factor	1.10	1.10	1.11	
Naphthalene	U	U	40J	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	41J	46J	19J	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	57J	67J	180J	330
Anthracene	34J	35J	54J	330
Fluoranthene	210J	240J	270J	330
Pyrene	230J	290J	360J	330
Benzo(a)anthracene	140J	180J	160J	330
Chrysene	140J	160J	210J	330
Benzo(b)fluoranthene	160J	200J	350J	330
Benzo(k)fluoranthene	130J	200J	260J	330
Benzo(a)pyrene	110J	140J	170J	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received	07/31/97	07/31/97	07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/19/97	08/20/97	08/22/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788A
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-24 DL	B-18	B-28	Quant. Limits with no Dilution
Lab Sample I.D.	971788A-17DL	971788A-18	971788A-19	
Method Blank I.D.	SBLKIH	SBLKIH	SBLKIH	
Quant. Factor	2.22	1.14	2.50	
Naphthalene	43JD	U	160J	330
2-Methylnaphthalene	U	U	35J	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	190JD	U	220J	330
Anthracene	60JD	U	48J	330
Fluoranthene	330JD	U	360J	330
Pyrene	360JD	U	500J	330
Benzo(a)anthracene	160JD	U	170J	330
Chrysene	210JD	U	260J	330
Benzo(b)fluoranthene	340JD	U	300J	330
Benzo(k)fluoranthene	310JD	U	230J	330
Benzo(a)pyrene	170JD	U	180J	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received	07/31/97	07/31/97	07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/22/97	08/19/97	08/20/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	GP-2		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKAH	971788A-01		
Method Blank I.D.	SBLKAH	SBLKAH		
Quant. Factor	1.00	1.09		
Naphthalene	U	U		330
2-Methylnaphthalene	U	U		330
Acenaphthylene	U	U		330
Acenaphthene	U	U		330
Fluorene	U	U		330
Phenanthrene	U	U		330
Anthracene	U	U		330
Fluoranthene	U	U		330
Pyrene	U	U		330
Benzo(a)anthracene	U	U		330
Chrysene	U	U		330
Benzo(b)fluoranthene	U	U		330
Benzo(k)fluoranthene	U	U		330
Benzo(a)pyrene	U	U		330
Indeno(1,2,3-cd)pyrene	U	U		330
Dibenzo(a,h)anthracene	U	U		330
Benzo(g,h,i)perylene	U	U		330
Date Received		07/26/97		
Date Extracted	07/30/97	07/30/97		
Date Analyzed	08/15/97	08/22/97		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor

Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	Method Blank	PBLK70 QC2 072997-B04	FB 072597	Quant. Limits with no Dilution
Lab Sample I.D.	072997-S04	QC2	971788A-02	
Method Blank I.D.	PCBLK70	PCBLK70	PCBLK70	
Quant. Factor	1.00	1.00	1.33	
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	6.1X	U	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	U	1.0
Aroclor-1260	U	8.8X	U	1.0
Date Received			07/26/97	
Date Extracted	07/29/97	07/29/97	07/29/97	
Date Analyzed	07/31/97	07/31/97	07/31/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D. Lab Sample I.D. Method Blank I.D. Quant. Factor	Method Blank 073197-B02 PBLK77 1.00	PBLK77 QC2 073197-B02 QC2 PBLK77 1.00	FB-2 971788A-10 PBLK77 1.00	Quant. Limits with no Dilution
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	U	U	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	U	1.0
Aroclor-1260	U	5.8X	U	1.0
Date Received			07/30/97	
Date Extracted	07/31/97	07/31/97	07/31/97	
Date Analyzed	08/08/97	08/12/97	08/25/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	PBLK65 QC2 072897-B04	GP-2	Quant. Limits with no Dilution
Lab Sample I.D.	072897-S04	QC2	971788A-01	
Method Blank I.D.	PCBLK65	PCBLK65	PCBLK65	
Quant. Factor	1.00	1.00	1.09	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	220X	U	33
Aroclor-1248	U	U	29.J	33
Aroclor-1254	U	U	140	33
Aroclor-1260	U	240X	U	33
Date Received			07/26/97	
Date Extracted	07/28/97	07/28/97	07/28/97	
Date Analyzed	07/30/97	07/30/97	07/30/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	GP-1 (SIDE)	GP-1 (BTM)	Quant. Limits with no Dilution
Lab Sample I.D.	073097-S02	971788A-05	971788A-06	
Method Blank I.D.	PCBLK73	PCBLK73	PCBLK73	
Quant. Factor	1.00	21.7	1120	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	6.1J	2400B	120000B	33
Aroclor-1254	U	3100	91000	33
Aroclor-1260	U	U	U	33
Date Received		07/30/97	07/30/97	
Date Extracted	07/30/97	07/30/97	07/30/97	
Date Analyzed	07/31/97	08/08/97	08/08/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	TPVII W	TPVII N	TPVII BTM	Quant. Limits with no Dilution
Lab Sample I.D.	971788A-07	971788A-08	971788A-09	
Method Blank I.D.	PCBLK73	PCBLK73	PCBLK73	
Quant. Factor	1.10	1.19	11.6	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	U 8.5JB	U 17.5JB	920B	33
Aroclor-1254	7.7J	65.	1200	33
Aroclor-1260	10.J	36.J	U	33
Date Received	07/30/97	07/30/97	07/30/97	
Date Extracted	07/30/97	07/30/97	07/30/97	
Date Analyzed	07/31/97	08/01/97	08/08/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	PBLK81 QC	B-14	Quant. Limits with no Dilution
Lab Sample I.D.	080497-B02	080497-B02QC	971788A-11	
Method Blank I.D.	PBLK81	PBLK81	PBLK81	
Quant. Factor	1.00	1.00	1.11	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	U	U	U	33
Aroclor-1254	U	U	140	33
Aroclor-1260	U	220X	68.	33
Date Received			07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/09/97	08/09/97	08/09/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-15	B-20	B-30	Quant. Limits with no Dilution
Lab Sample I.D.	971788A-12	971788A-13	971788A-14	
Method Blank I.D.	PBLK81	PBLK81	PBLK81	
Quant. Factor	5.56	1.12	11.2	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	U	U	U	33
Aroclor-1254	240	190	940	33
Aroclor-1260	90.J	71.	U	33
Date Received	07/31/97	07/31/97	07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/12/97	08/09/97	08/12/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-19	B-24	B-18	Quant. Limits with no Dilution
Lab Sample I.D.	971788A-15	971788A-17	971788A-18	
Method Blank I.D.	PBLK81	PBLK81	PBLK81	
Quant. Factor	1.08	55.6	1.14	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	U	2600	U	33
Aroclor-1254	20.J	6100	U	33
Aroclor-1260	U	U	U	33
Date Received	07/31/97	07/31/97	07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/09/97	08/12/97	08/09/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	TPVII E			
Lab Sample I.D.	971788A-20			Quant. Limits
Method Blank I.D.	PBLK81			with no
Quant. Factor	21.0			Dilution
Aroclor-1016	U			33
Aroclor-1221	U			67
Aroclor-1232	U			33
Aroclor-1242	U			33
Aroclor-1248	U			33
Aroclor-1254	1300			33
Aroclor-1260	U			33
Date Received	07/31/97			
Date Extracted	08/04/97			
Date Analyzed	08/12/97			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	AEN ID:	Method Blank (08/05)
Project:	Sample:	
Report Date: 08/07/97	Type:	Soil
Collected:	Container:	
Received:		
Analyzed: 08/05/97	Dilution Factor:	1
By: GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 72 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

Corresponding Samples: 0070-491-01, 0070-491-02, 0070-491-03

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client: IEA/American Env. Network (CT)	AEN ID: 0070-491-01
Project: 7097-1788B	Sample: Cesspool Liq
Report Date: 08/07/97	Type: Water
Collected: 07/30/97	Container: VOA
Received: 08/04/97	
Analyzed: 08/05/97	Dilution Factor: 1
By: GAM	

Number	Compound	PQL (ug/L)	Result (ug/L)
1	Benzene	1	BQL
2	n-Butylbenzene	1	5
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	5
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	2
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 91 %

Comments:

PQL = Practical quantitation limit.
BQL = Below quantitation limit.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client: IEA/American Env. Network (CT)	AEN ID: 0070-491-02
Project: 7097-1788B	Sample: Cesspool Sol
Report Date: 08/07/97	Type: Soil
Collected: 07/30/97	Container: Glass
Received: 08/04/97	
Analyzed: 08/05/97	Dilution Factor: 2.3
By: GAM	

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	2.3	BQL
2	n-Butylbenzene	2.3	170
3	s-Butylbenzene	2.3	200
4	t-Butylbenzene	2.3	38
5	Ethylbenzene	2.3	BQL
6	Isopropylbenzene	2.3	BQL
7	Isopropyltoluene	2.3	260
8	Methyl-t-butylether	2.3	BQL
9	Naphthalene	2.3	BQL
10	n-Propylbenzene	2.3	BQL
11	Toluene	2.3	BQL
12	1,2,4-Trimethylbenzene	2.3	BQL
13	1,3,5-Trimethylbenzene	2.3	42
14	Xylenes (Total)	2.3	55

Surrogate Standard Recovery:

1,4-Difluorobenzene 84 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-491-03
Project:	7097-1788B	Sample:	B-2
Report Date:	08/07/97	Type:	Soil
Collected:	07/31/97	Container:	Glass
Received:	08/04/97		
Analyzed:	08/05/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 86 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:
Project:
Report Date: 09/05/97
Collected:
Received:
Analyzed: 08/11/97
By: LSB

AEN ID: Method Blank
Sample:
Type: Soil
Container:

Dilution Factor: 1

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 91 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Corresponding Samples: 0070-493-01, -02

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network(CT)	AEN ID:	0070-493-01
Project:	7097-1788B	Sample:	B-29
Report Date:	09/05/97	Type:	Soil
Collected:	08/01/97	Container:	Glass
Received:	08/06/97		
Analyzed:	08/11/97	Dilution Factor:	6.6
By:	LSB		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	6.6	BQL
2	n-Butylbenzene	6.6	270
3	s-Butylbenzene	6.6	15
4	t-Butylbenzene	6.6	BQL
5	Ethylbenzene	6.6	96
6	Isopropylbenzene	6.6	BQL
7	Isopropyltoluene	6.6	22
8	Methyl-t-butylether	6.6	BQL
9	Naphthalene	6.6	140
10	n-Propylbenzene	6.6	12
11	Toluene	6.6	BQL
12	1,2,4-Trimethylbenzene	6.6	490
13	1,3,5-Trimethylbenzene	6.6	470
14	Xylenes (Total)	6.6	240

Surrogate Standard Recovery:

1,4-Difluorobenzene 79 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network(CT)	AEN ID:	0070493-02
Project:	7097-1788B	Sample:	FB 8/1/97
Report Date:	09/05/97	Type:	Water
Collected:	08/01/97	Container:	VOA
Received:	08/06/97		
Analyzed:	08/11/97	Dilution Factor:	1
By:	LSB		

Number	Compound	PQL (ug/L)	Result (ug/L)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 95 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

7097-1788B
GERAGHTY & MILLER
PAH'S

All values are ug/L.

Client Sample I.D.	Method Blank	CESS POOL LQ	FB 080197	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKQH	971788B-01	971788B-11	
Method Blank I.D.	SBLKQH	SBLKQH	SBLKQH	
Quant. Factor	1.00	40.0	1.00	
Naphthalene	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Acenaphthylene	U	U	U	10
Acenaphthene	U	U	U	10
Fluorene	U	U	U	10
Phenanthrene	U	U	U	10
Anthracene	U	U	U	10
Fluoranthene	U	U	U	10
Pyrene	U	U	U	10
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	U	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenzo(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received		07/31/97	08/04/97	
Date Extracted	08/05/97	08/05/97	08/05/97	
Date Analyzed	08/21/97	08/22/97	08/22/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1788B
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	CESS POOL SO	CESS POOL SO RE	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKOH	971788B-02	971788B-02RE	
Method Blank I.D.	SBLKOH	SBLKOH	SBLKOH	
Quant. Factor	1.00	17.8	17.8	
Naphthalene	U	8500	10000	330
2-Methylnaphthalene	U	9800	14000	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	U	U	U	330
Anthracene	U	16000	24000	330
Fluoranthene	U	U	U	330
Pyrene	U	390J	500J	330
Benzo(a)anthracene	U	U	U	330
Chrysene	U	U	U	330
Benzo(b)fluoranthene	U	U	U	330
Benzo(k)fluoranthene	U	U	U	330
Benzo(a)pyrene	U	U	U	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received		07/31/97	07/31/97	
Date Extracted	08/05/97	08/05/97	08/05/97	
Date Analyzed	08/21/97	08/22/97	08/20/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1788B
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-22	B-22 RE	B-13	Quant. Limits with no Dilution
Lab Sample I.D.	971788B-03	971788B-03RE	971788B-04	
Method Blank I.D.	SBLKOH	SBLKOH	SBLKOH	
Quant. Factor	1.23	1.23	1.09	
Naphthalene	52J	50J	50J	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	150J	330
Fluorene	U	U	120J	330
Phenanthrene	U	U	1300	330
Anthracene	U	U	290J	330
Fluoranthene	U	U	1700	330
Pyrene	U	49J	1500	330
Benzo(a)anthracene	29J	26J	860	330
Chrysene	59J	58J	790	330
Benzo(b)fluoranthene	U	U	1100	330
Benzo(k)fluoranthene	U	U	770	330
Benzo(a)pyrene	U	U	720	330
Indeno(1,2,3-cd)pyrene	U	U	130J	330
Dibenzo(a,h)anthracene	U	U	50J	330
Benzo(g,h,i)perylene	U	U	96J	330
Date Received	08/01/97	08/01/97	08/01/97	
Date Extracted	08/05/97	08/05/97	08/05/97	
Date Analyzed	08/22/97	08/22/97	08/22/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788B
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-13 RE	B-2		Quant. Limits with no Dilution
Lab Sample I.D.	971788B-04RE	971788B-05		
Method Blank I.D.	SBLKOH	SBLKOH		
Quant. Factor	1.09	1.11		
Naphthalene	49J	U		330
2-Methylnaphthalene	U	U		330
Acenaphthylene	U	U		330
Acenaphthene	140J	U		330
Fluorene	120J	U		330
Phenanthrene	1300	U		330
Anthracene	280J	U		330
Fluoranthene	1700	U		330
Pyrene	1600	U		330
Benzo(a)anthracene	850	U		330
Chrysene	770	U		330
Benzo(b)fluoranthene	1000	U		330
Benzo(k)fluoranthene	810	U		330
Benzo(a)pyrene	720	U		330
Indeno(1,2,3-cd)pyrene	130J	U		330
Dibenzo(a,h)anthracene	53J	U		330
Benzo(g,h,i)perylene	94J	U		330
Date Received	08/01/97	08/01/97		
Date Extracted	08/05/97	08/05/97		
Date Analyzed	08/25/97	08/20/97		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788B
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	B-12	B-12 RE	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKAH	971788B-06	971788B-06RE	
Method Blank I.D.	SBLKAH	SBLKAH	SBLKAH	
Quant. Factor	1.00	1.18	1.18	
Naphthalene	U	71J	69J	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	U	59J	51J	330
Acenaphthene	U	48J	57J	330
Fluorene	U	54J	56J	330
Phenanthrene	U	690	690	330
Anthracene	U	220J	200J	330
Fluoranthene	U	1300	1300	330
Pyrene	U	1200	1200	330
Benzo(a)anthracene	U	590	600	330
Chrysene	U	620	620	330
Benzo(b)fluoranthene	U	850	780	330
Benzo(k)fluoranthene	U	650	620	330
Benzo(a)pyrene	U	520	520	330
Indeno(1,2,3-cd)pyrene	U	82J	91J	330
Dibenzo(a,h)anthracene	U	U	U	330
benzo(g,h,i)perylene	U	73J	69J	330
Date Received		08/01/97	08/01/97	
Date Extracted	08/07/97	08/07/97	08/07/97	
Date Analyzed	08/21/97	08/22/97	08/25/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788B
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-25	B-26	B-31	Quant. Limits with no Dilution
Lab Sample I.D.	971788B-07	971788B-08	971788B-10	
Method Blank I.D.	SBLKAH	SBLKAH	SBLKAH	
Quant. Factor	1.08	1.06	1.12	
Naphthalene	U	U	U	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	44J	U	U	330
Anthracene	9J	U	17J	330
Fluoranthene	77J	U	22J	330
Pyrene	70J	U	U	330
Benzo(a)anthracene	40J	U	U	330
Chrysene	44J	U	U	330
Benzo(b)fluoranthene	41J	U	U	330
Benzo(k)fluoranthene	38J	U	U	330
Benzo(a)pyrene	39J	U	U	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received	08/04/97	08/04/97	08/04/97	
Date Extracted	08/07/97	08/07/97	08/07/97	
Date Analyzed	08/20/97	08/20/97	08/20/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1788B
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	Method Blank	PBLK82 QC	CESS POOL LQ	Quant. Limits with no Dilution
Lab Sample I.D.	080497-B04	080497-B04QC	971788B-01	
Method Blank I.D.	PBLK82	PBLK82	PBLK82	
Quant. Factor	1.00	1.00	1.00	
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	U	U	1.0
Aroclor-1248	U	U	0.88J	1.0
Aroclor-1254	U	U	1.4	1.0
Aroclor-1260	U	7.3X	U	1.0
Date Received			07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/07/97	08/07/97	08/07/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788B
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	FB 080197			Quant. Limits with no Dilution
Lab Sample I.D.	971788B-11			
Method Blank I.D.	PBLK82			
Quant. Factor	1.00			
Aroclor-1016	U			1.0
Aroclor-1221	U			2.0
Aroclor-1232	U			1.0
Aroclor-1242	U			1.0
Aroclor-1248	U			1.0
Aroclor-1254	U			1.0
Aroclor-1260	U			1.0
Date Received	08/04/97			
Date Extracted	08/04/97			
Date Analyzed	08/07/97			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788B
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	PBLK81 QC	CESS POOL SO	Quant. Limits with no Dilution
Lab Sample I.D.	080497-B02	080497-B02QC	971788B-02	
Method Blank I.D.	PBLK81	PBLK81	PBLK81	
Quant. Factor	1.00	1.00	89.3	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	U	U	2400J	33
Aroclor-1254	U	U	3900	33
Aroclor-1260	U	220X	U	33
Date Received			07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/09/97	08/09/97	08/13/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788B
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-22	B-13	B-12	Quant. Limits with no Dilution
Lab Sample I.D.	971788B-03	971788B-04	971788B-06	
Method Blank I.D.	PBLK81	PBLK81	PBLK81	
Quant. Factor	12.3	5.43	58.8	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	390J	U	U	33
Aroclor-1254	980	280	2100	33
Aroclor-1260	280J	160J	790J	33
Date Received	08/01/97	08/01/97	08/01/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/12/97	08/12/97	08/12/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788B
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-25	B-26	B-29	Quant. Limits with no Dilution
Lab Sample I.D.	971788B-07	971788B-08	971788B-09	
Method Blank I.D.	PBLK81	PBLK81	PBLK81	
Quant. Factor	1.08	1.05	116.	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	24.J	U	3500J	33
Aroclor-1254	41.	U	5700	33
Aroclor-1260	U	U	U	33
Date Received	08/04/97	08/04/97	08/04/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/14/97	08/14/97	08/12/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1788B
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-31			Quant. Limits with no Dilution
Lab Sample I.D.	971788B-10			
Method Blank I.D.	PBLK81			
Quant. Factor	1.12			
Aroclor-1016	U			33
Aroclor-1221	U			67
Aroclor-1232	U			33
Aroclor-1242	U			33
Aroclor-1248	U			33
Aroclor-1254	25.J			33
Aroclor-1260	U			33
Date Received	08/04/97			
Date Extracted	08/04/97			
Date Analyzed	08/14/97			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

All values are ug/L.

Client Sample I.D.	Method Blank	FB-3	FB 073197	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKEH	971744A-02	971744A-04	
Method Blank I.D.	VBLKEH	VBLKEH	VBLKEH	
Quant. Factor	1.00	1.00	1.00	
Chloromethane	U	U	U	10
Bromomethane	U	U	U	10
Vinyl Chloride	U	U	U	10
Chloroethane	U	U	U	10
Methylene Chloride	U	U	1J	10
Acetone	U	U	U	10
Carbon Disulfide	U	U	U	10
1,1-Dichloroethene	U	U	U	10
1,1-Dichloroethane	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	10
Chloroform	U	3J	U	10
1,2-Dichloroethane	U	U	U	10
2-Butanone	U	U	U	10
1,1,1-Trichloroethane	U	U	U	10
Carbon Tetrachloride	U	U	U	10
Bromodichloromethane	U	.3J	U	10
1,2-Dichloropropane	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	10
Trichloroethene	U	U	U	10
Dibromochloromethane	U	U	U	10
1,1,2-Trichloroethane	U	U	U	10
Benzene	U	U	U	10
trans-1,3-Dichloropropene	U	U	U	10
Bromoform	U	U	U	10
4-Methyl-2-Pentanone	U	U	U	10
2-Hexanone	U	U	U	10
Tetrachloroethene	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	10
Toluene	U	U	U	10
Chlorobenzene	U	U	U	10
Ethylbenzene	U	U	U	10
Styrene	U	U	U	10
Xylene (total)	U	U	U	10
Date Received		07/31/97	08/01/97	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	08/06/97	08/06/97	08/06/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

All values are ug/L.

Client Sample I.D.	TB 073197			Quant. Limits with no Dilution
Lab Sample I.D.	971744A-05			
Method Blank I.D.	VBLKEH			
Quant. Factor	1.00			
Chloromethane	U			10
Bromomethane	U			10
Vinyl Chloride	U			10
Chloroethane	U			10
Methylene Chloride	1J			10
Acetone	U			10
Carbon Disulfide	U			10
1,1-Dichloroethene	U			10
1,1-Dichloroethane	U			10
1,2-Dichloroethene (total)	U			10
Chloroform	U			10
1,2-Dichloroethane	U			10
2-Butanone	U			10
1,1,1-Trichloroethane	U			10
Carbon Tetrachloride	U			10
Bromodichloromethane	U			10
1,2-Dichloropropane	U			10
cis-1,3-Dichloropropene	U			10
Trichloroethene	U			10
Dibromochloromethane	U			10
1,1,2-Trichloroethane	U			10
1,2,3-Trichloroethene	U			10
trans-1,3-Dichloropropene	U			10
Bromoform	U			10
4-Methyl-2-Pentanone	U			10
2-Hexanone	U			10
Tetrachloroethene	U			10
1,1,2,2-Tetrachloroethane	U			10
Toluene	U			10
Chlorobenzene	U			10
Ethylbenzene	U			10
Styrene	U			10
Xylene (total)	U			10
Date Received	08/01/97			
Date Extracted	N/A			
Date Analyzed	08/06/97			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

All values are ug/L.

Client Sample I.D.	Method Blank	TB 073097		Quant. Limits with no Dilution
Lab Sample I.D.	VLKEI	971744A-03		
Method Blank I.D.	VLKEI	VLKEI		
Quant. Factor	1.00	1.00		
Chloromethane	U	U		10
Bromomethane	U	U		10
Vinyl Chloride	U	U		10
Chloroethane	U	U		10
Methylene Chloride	U	1JB		10
Acetone	15	U		10
Carbon Disulfide	U	U		10
1,1-Dichloroethene	U	U		10
1,1-Dichloroethane	U	U		10
1,2-Dichloroethene (total)	U	U		10
Chloroform	U	U		10
1,2-Dichloroethane	U	U		10
2-Butanone	U	U		10
1,1,1-Trichloroethane	U	U		10
Carbon Tetrachloride	U	U		10
Bromodichloromethane	U	U		10
1,2-Dichloropropane	U	U		10
cis-1,3-Dichloropropene	U	U		10
Trichloroethene	U	U		10
Dibromochloromethane	U	U		10
1,1,2-Trichloroethane	U	U		10
1,2-Dichloroethane	U	U		10
trans-1,3-Dichloropropene	U	U		10
Bromoform	U	U		10
4-Methyl-2-Pentanone	U	U		10
2-Hexanone	U	U		10
Tetrachloroethene	U	U		10
1,1,2,2-Tetrachloroethane	U	U		10
Toluene	U	U		10
Chlorobenzene	U	U		10
Ethylbenzene	U	U		10
Styrene	U	U		10
Xylene (total)	U	U		10
Date Received		07/31/97		
Date Extracted	N/A	N/A		
Date Analyzed	08/07/97	08/07/97		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	B-23	B-16	Quant. Limits with no Dilution
Lab Sample I.D.	VBKBF	971744A-06	971744A-07	
Method Blank I.D.	VBKBF	VBKBF	VBKBF	
Quant. Factor	1.00	1.10	1.06	
Chloromethane	U	U	U	10
Bromomethane	U	U	U	10
Vinyl Chloride	U	U	U	10
Chloroethane	U	U	U	10
Methylene Chloride	U	U	U	10
Acetone	13	~~29B~~ U	~~23B~~ U	10
Carbon Disulfide	U	U	U	10
1,1-Dichloroethene	U	U	U	10
1,1-Dichloroethane	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	10
Chloroform	U	U	U	10
1,2-Dichloroethane	U	U	U	10
2-Butanone	U	U	U	10
1,1,1-Trichloroethane	U	U	U	10
Carbon Tetrachloride	U	U	U	10
Bromodichloromethane	U	U	U	10
1,2-Dichloropropane	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	10
Trichloroethene	U	U	U	10
Dibromochloromethane	U	U	U	10
1,1,2-Trichloroethane	U	U	U	10
benzene	U	U	U	10
trans-1,3-Dichloropropene	U	U	U	10
Bromoform	U	U	U	10
4-Methyl-2-Pentanone	U	U	U	10
2-Hexanone	U	U	U	10
Tetrachloroethene	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	10
Toluene	U	U	U	10
Chlorobenzene	U	U	U	10
Ethylbenzene	U	U	U	10
Styrene	U	U	U	10
Xylene (total)	U	U	U	10
Date Received	N/A	08/01/97	08/01/97	
Date Extracted		N/A	N/A	
Date Analyzed	08/07/97	08/07/97	08/07/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

All values are ug/Kg dry weight basis.

Client Sample I.D. Lab Sample I.D. Method Blank I.D. Quant. Factor	B-16 MS 971744A-07MS VBLKBF 1.06	B-16 MSD 971744A-07 MSD VBLKBF 1.06	B-17 971744A-08 VBLKBF 1.09	Quant. Limits with no Dilution
Chloromethane	U	U	U	10
Bromomethane	U	U	U	10
Vinyl Chloride	U	U	U	10
Chloroethane	U	U	U	10
Methylene Chloride	U	U	U	10
Acetone	37B	U	~~24B~~ U	10
Carbon Disulfide	U	U	U	10
1,1-Dichloroethene	49X	48X	U	10
1,1-Dichloroethane	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	10
Chloroform	U	U	U	10
1,2-Dichloroethane	U	U	U	10
2-Butanone	U	U	U	10
1,1,1-Trichloroethane	U	U	U	10
Carbon Tetrachloride	U	U	U	10
Bromodichloromethane	U	U	U	10
1,2-Dichloropropane	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	10
Trichloroethene	47X	49X	U	10
Dibromochloromethane	U	U	U	10
1,1,2-Trichloroethane	U	U	U	10
ene	49X	48X	U	10
trans-1,3-Dichloropropene	U	U	U	10
Bromoform	U	U	U	10
4-Methyl-2-Pentanone	U	U	U	10
2-Hexanone	U	U	U	10
Tetrachloroethene	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	10
Toluene	54X	47X	U	10
Chlorobenzene	46X	45X	U	10
Ethylbenzene	U	U	U	10
Styrene	U	U	U	10
Xylene (total)	U	U	U	10
Date Received	08/01/97	08/01/97	08/01/97	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	08/07/97	08/07/97	08/07/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-21(0-2)			Quant. Limits with no Dilution
Lab Sample I.D.	971744A-09			
Method Blank I.D.	VBKBF			
Quant. Factor	1.08			
Chloromethane	U			10
Bromomethane	U			10
Vinyl Chloride	U			10
Chloroethane	U			10
Methylene Chloride	2J			10
Acetone	23B			10
Carbon Disulfide	U			10
1,1-Dichloroethene	U			10
1,1-Dichloroethane	U			10
1,2-Dichloroethene (total)	U			10
Chloroform	U			10
1,2-Dichloroethane	U			10
2-Butanone	U			10
1,1,1-Trichloroethane	U			10
Carbon Tetrachloride	U			10
Bromodichloromethane	U			10
1,2-Dichloropropane	U			10
cis-1,3-Dichloropropene	U			10
Trichloroethene	U			10
Dibromochloromethane	U			10
1,1,2-Trichloroethane	U			10
benzene	U			10
trans-1,3-Dichloropropene	U			10
Bromoform	U			10
4-Methyl-2-Pentanone	U			10
2-Hexanone	U			10
Tetrachloroethene	U			10
1,1,2,2-Tetrachloroethane	U			10
Toluene	1J			10
Chlorobenzene	U			10
Ethylbenzene	U			10
Styrene	U			10
Xylene (total)	U			10
Date Received	08/01/97			
Date Extracted	N/A			
Date Analyzed	08/07/97			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	TPVII S		Quant. Limits with no Dilution
Lab Sample I.D.	VBLKDE	971744A-01		
Method Blank I.D.	VBLKDE	VBLKDE		
Quant. Factor	1.00	1.10		
Chloromethane	U	U		10
Bromomethane	U	U		10
Vinyl Chloride	U	U		10
Chloroethane	U	U		10
Methylene Chloride	U	4J		10
Acetone	5J	10J <i>il</i>		10
Carbon Disulfide	U	U		10
1,1-Dichloroethene	U	U		10
1,1-Dichloroethane	U	U		10
1,2-Dichloroethene (total)	U	U		10
Chloroform	U	U		10
1,2-Dichloroethane	U	U		10
2-Butanone	U	U		10
1,1,1-Trichloroethane	U	U		10
Carbon Tetrachloride	U	U		10
Bromodichloromethane	U	U		10
1,2-Dichloropropane	U	U		10
cis-1,3-Dichloropropene	U	U		10
Trichloroethene	U	U		10
Dibromochloromethane	U	U		10
1,1,2-Trichloroethane	U	U		10
Benzene	U	U		10
trans-1,3-Dichloropropene	U	U		10
Bromoform	U	U		10
4-Methyl-2-Pentanone	U	U		10
2-Hexanone	U	U		10
Tetrachloroethene	U	2J		10
1,1,2,2-Tetrachloroethane	U	U		10
Toluene	U	U		10
Chlorobenzene	U	U		10
Ethylbenzene	U	U		10
Styrene	U	U		10
Xylene (total)	U	U		10
Date Received		07/31/97		
Date Extracted	N/A	N/A		
Date Analyzed	08/06/97	08/06/97		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1744A
GERAGHTY & MILLER
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: VBLKEH

Lab Sample Id: VBLKEH Client Sample Id: Method Blank

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/L</u>
NONE DETECTED			

Lab Sample Id: 971744A-02 Client Sample Id: FB-3

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/L</u>
NONE DETECTED			

Lab Sample Id: 971744A-04 Client Sample Id: FB 073197

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/L</u>
NONE DETECTED			

Lab Sample Id: 971744A-05 Client Sample Id: TB 073197

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/L</u>
NONE DETECTED			

See Appendix for qualifier definitions

7097-1744A
GERAGHTY & MILLER
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: VBLKEI

Lab Sample Id: VBLKEI Client Sample Id: Method Blank

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/L</u>
NONE DETECTED			

Lab Sample Id: 971744A-03 Client Sample Id: TB 073097

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/L</u>
NONE DETECTED			

See Appendix for qualifier definitions

7097-1744A
GERAGHTY & MILLER
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: VBLKBF

Lab Sample Id: VBLKBF Client Sample Id: Method Blank

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
NONE DETECTED			

Lab Sample Id: 971744A-06 Client Sample Id: B-23

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
	UNKNOWN SILOXANE	26.58	45J
	UNKNOWN	26.91	11J

Lab Sample Id: 971744A-07 Client Sample Id: B-16

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
	UNKNOWN SILOXANE	26.61	69J
556672	CYCLOTETRASILOXANE, OCTAMETH	23.88	6JN

Lab Sample Id: 971744A-08 Client Sample Id: B-17

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
	UNKNOWN SILOXANE	26.55	45J

Lab Sample Id: 971744A-09 Client Sample Id: B-21(0-2)

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
	UNKNOWN SILOXANE	26.66	21J

See Appendix for qualifier definitions

7097-1744A
GERAGHTY & MILLER
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: VBLKDE

Lab Sample Id: VBLKDE Client Sample Id: Method Blank

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
NONE DETECTED			

Lab Sample Id: 971744A-01 Client Sample Id: TPVII S

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
NONE DETECTED			

See Appendix for qualifier definitions

All values are ug/L.

Client Sample I.D.	Method Blank	FB-3	FB 073197	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKSJ	971744A-02	971744A-04	
Method Blank I.D.	SBLKSJ	SBLKSJ	SBLKSJ	
Quant. Factor	1.00	1.00	1.00	
Phenol	U	U	U	10
bis(2-Chloroethyl) ether	U	U	U	10
2-Chlorophenol	U	U	U	10
1,3-Dichlorobenzene	U	U	U	10
1,4-Dichlorobenzene	U	U	U	10
1,2-Dichlorobenzene	U	U	U	10
2-Methylphenol	U	U	U	10
2,2'-oxybis(1-Chloropropane)	U	U	U	10
4-Methylphenol	U	U	U	10
N-Nitroso-di-n-propylamine	U	U	U	10
Hexachloroethane	U	U	U	10
Nitrobenzene	U	U	U	10
Isophorone	U	U	U	10
2-Nitrophenol	U	U	U	10
2,4-Dimethylphenol	U	U	U	10
bis(2-Chloroethoxy) methane	U	U	U	10
2,4-Dichlorophenol	U	U	U	10
1,2,4-Trichlorobenzene	U	U	U	10
Naphthalene	U	U	U	10
4-Chloroaniline	U	U	U	10
Hexachlorobutadiene	U	U	U	10
2-Chloro-3-methylphenol	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Hexachlorocyclopentadiene	U	U	U	10
2,4,6-Trichlorophenol	U	U	U	25
2,4,5-Trichlorophenol	U	U	U	10
2-Chloronaphthalene	U	U	U	25
2-Nitroaniline	U	U	U	10
Dimethylphthalate	U	U	U	10
Acenaphthylene	U	U	U	10
2,6-Dinitrotoluene	U	U	U	25
3-Nitroaniline	U	U	U	10
Acenaphthene	U	U	U	25
2,4-Dinitrophenol	U	U	U	25
4-Nitrophenol	U	U	U	
Date Received		07/31/97	08/01/97	
Date Extracted	08/05/97	08/05/97	08/05/97	
Date Analyzed	08/26/97	08/26/97	08/26/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

All values are ug/L.

Client Sample I.D.	Method Blank	FB-3	FB 073197	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKSJ	971744A-02	971744A-04	
Method Blank I.D.	SBLKSJ	SBLKSJ	SBLKSJ	
Quant. Factor	1.00	1.00	1.00	
Dibenzofuran	U	U	U	10
2,4-Dinitrotoluene	U	U	U	10
Diethylphthalate	.2J	U	.3JB u	10
4-Chlorophenyl-phenylether	U	U	U	10
Fluorene	U	U	U	10
4-Nitroaniline	U	U	U	25
4,6-Dinitro-2-methylphenol	U	U	U	25
N-Nitrosodiphenylamine (1)	U	U	U	10
4-Bromophenyl-phenylether	U	U	U	10
Hexachlorobenzene	U	U	U	10
Pentachlorophenol	U	U	U	25
Phenanthrene	U	U	U	10
Anthracene	U	U	U	10
Carbazole	U	U	U	10
Di-n-butylphthalate	.6J	.3JB u	.5JB u	10
Fluoranthene	U	U	U	10
Pyrene	U	U	U	10
Butylbenzylphthalate	U	U	U	10
3,3'-Dichlorobenzidine	U	U	U	10
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	U	10
Bis(2-Ethylhexyl)phthalate	1J	.9JB u	4JB u	10
Di-n-octylphthalate	U	U	U	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenz(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received		07/31/97	08/01/97	
Date Extracted	08/05/97	08/05/97	08/05/97	
Date Analyzed	08/26/97	08/26/97	08/26/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	TPVII S	TPVII S RE	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKKJ	971744A-01	971744A-01RE	
Method Blank I.D.	SBLKKJ	SBLKKJ	SBLKKJ	
Quant. Factor	1.00	1.10	1.10	
Phenol	U	U	U	330
bis(2-Chloroethyl) ether	U	U	U	330
2-Chlorophenol	U	U	U	330
1,3-Dichlorobenzene	U	U	U	330
1,4-Dichlorobenzene	U	U	U	330
1,2-Dichlorobenzene	U	U	U	330
2-Methylphenol	U	U	U	330
2,2'-oxybis(1-Chloropropane)	U	U	U	330
4-Methylphenol	U	U	U	330
N-Nitroso-di-n-propylamine	U	U	U	330
Hexachloroethane	U	U	U	330
Nitrobenzene	U	U	U	330
Isophorone	U	U	U	330
2-Nitrophenol	U	U	U	330
2,4-Dimethylphenol	U	U	U	330
bis(2-Chloroethoxy) methane	U	U	U	330
2,4-Dichlorophenol	U	U	U	330
1,2,4-Trichlorobenzene	U	U	U	330
Naphthalene	U	50J	52J	330
4-Chloroaniline	U	U	U	330
Hexachlorobutadiene	U	U	U	330
4-Chloro-3-methylphenol	U	U	U	330
2-Methylnaphthalene	U	110J	120J	330
Hexachlorocyclopentadiene	U	U	U	330
2,4,6-Trichlorophenol	U	U	U	830
2,4,5-Trichlorophenol	U	U	U	330
2-Chloronaphthalene	U	U	U	830
2-Nitroaniline	U	U	U	330
Dimethylphthalate	U	U	U	330
Acenaphthylene	U	U	U	330
2,6-Dinitrotoluene	U	U	U	830
3-Nitroaniline	U	U	U	330
Acenaphthene	U	U	U	830
2,4-Dinitrophenol	U	U	U	830
4-Nitrophenol	U	U	U	830
Date Received		07/31/97	07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/26/97	08/26/97	08/26/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	TPVII S	TPVII S RE	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKKJ	971744A-01	971744A-01RE	
Method Blank I.D.	SBLKKJ	SBLKKJ	SBLKKJ	
Quant. Factor	1.00	1.10	1.10	
Dibenzofuran	U	U	U	330
2,4-Dinitrotoluene	U	U	U	330
Diethylphthalate	U	U	U	330
4-Chlorophenyl-phenylether	U	U	U	330
Fluorene	U	U	U	830
4-Nitroaniline	U	U	U	830
4,6-Dinitro-2-methylphenol	U	U	U	330
N-Nitrosodiphenylamine (1)	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	330
Hexachlorobenzene	U	1100	1500	830
Pentachlorophenol	U	74J	88J	330
Phenanthrene	U	32J	43J	330
Anthracene	U	U	U	330
Carbazole	U	U	U	330
Di-n-butylphthalate	8J	U	U	330
Fluoranthene	U	U	U	330
Pyrene	U	220J	250J	330
Butylbenzylphthalate	U	U	U	330
3,3'-Dichlorobenzidine	U	U	U	330
Benzo(a)anthracene	U	U	U	330
Chrysene	U	U	U	330
Bis(2-Ethylhexyl)phthalate	U	U	U	330
Di-n-octylphthalate	U	U	U	330
Benzo(b)fluoranthene	U	U	U	330
Benzo(k)fluoranthene	U	U	U	330
Benzo(a)pyrene	U	U	U	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenz(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received		07/31/97	07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/26/97	08/26/97	08/26/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	B-23	B-16	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKUJ	971744A-06	971744A-07	
Method Blank I.D.	SBLKUJ	SBLKUJ	SBLKUJ	
Quant. Factor	1.00	1.10	1.06	
Phenol	U	U	U	330
bis(2-Chloroethyl) ether	U	U	U	330
2-Chlorophenol	U	U	U	330
1,3-Dichlorobenzene	U	U	U	330
1,4-Dichlorobenzene	U	U	U	330
1,2-Dichlorobenzene	U	U	U	330
2-Methylphenol	U	U	U	330
2,2'-oxybis(1-Chloropropane)	U	U	U	330
4-Methylphenol	U	U	U	330
N-Nitroso-di-n-propylamine	U	U	U	330
Hexachloroethane	U	U	U	330
Nitrobenzene	U	U	U	330
Isophorone	U	U	U	330
2-Nitrophenol	U	U	U	330
2,4-Dimethylphenol	U	U	U	330
bis(2-Chloroethoxy) methane	U	U	U	330
2,4-Dichlorophenol	U	U	U	330
1,2,4-Trichlorobenzene	U	U	U	330
Naphthalene	U	8J	15J	330
4-Chloroaniline	U	U	U	330
Hexachlorobutadiene	U	U	U	330
2-Chloro-3-methylphenol	U	U	U	330
2-Methylnaphthalene	U	U	U	330
Hexachlorocyclopentadiene	U	U	U	330
2,4,6-Trichlorophenol	U	U	U	830
2,4,5-Trichlorophenol	U	U	U	330
2-Chloronaphthalene	U	U	U	830
2-Nitroaniline	U	U	U	330
Dimethylphthalate	U	U	U	330
Acenaphthylene	U	U	12J	330
2,6-Dinitrotoluene	U	U	U	830
3-Nitroaniline	U	U	U	330
Acenaphthene	U	14J	130J	830
2,4-Dinitrophenol	U	U	U	830
4-Nitrophenol	U	U	U	830
Date Received		08/01/97	08/01/97	
Date Extracted	08/06/97	08/06/97	08/06/97	
Date Analyzed	08/26/97	08/26/97	08/26/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-16 MS	B-16 MSD	B-17	Quant. Limits with no Dilution
Lab Sample I.D.	971744A-07MS	971744A-07	971744A-08	
Method Blank I.D.	SBLKUJ	SBLKUJ	SBLKUJ	
Quant. Factor	1.06	1.06	1.08	
Phenol	1800X	2000X	U	330
bis(2-Chloroethyl) ether	U	U	U	330
2-Chlorophenol	1700X	1900X	U	330
1,3-Dichlorobenzene	U	U	U	330
1,4-Dichlorobenzene	1300X	1400X	U	330
1,2-Dichlorobenzene	U	U	U	330
2-Methylphenol	U	U	U	330
2,2'-oxybis(1-Chloropropane)	U	U	U	330
4-Methylphenol	U	U	U	330
N-Nitroso-di-n-propylamine	1600X	1800X	U	330
Hexachloroethane	U	U	U	330
Nitrobenzene	U	U	U	330
Isophorone	U	U	U	330
2-Nitrophenol	U	U	U	330
2,4-Dimethylphenol	U	U	U	330
bis(2-Chloroethoxy) methane	U	U	U	330
2,4-Dichlorophenol	U	U	U	330
1,2,4-Trichlorobenzene	1500X	1600X	U	330
Naphthalene	20J	20J	70J	330
4-Chloroaniline	U	U	U	330
Hexachlorobutadiene	U	U	U	330
4-Chloro-3-methylphenol	1900X	2400X	U	330
2-Methylnaphthalene	U	22J	160J	330
Hexachlorocyclopentadiene	U	U	U	330
2,4,6-Trichlorophenol	U	U	U	830
2,4,5-Trichlorophenol	U	U	U	330
2-Chloronaphthalene	U	U	U	830
2-Nitroaniline	U	U	U	330
Dimethylphthalate	U	U	U	330
Acenaphthylene	U	41J	U	330
2,6-Dinitrotoluene	U	U	U	830
3-Nitroaniline	U	U	U	330
Acenaphthene	1500X	1600X	U	830
2,4-Dinitrophenol	U	U	U	830
4-Nitrophenol	1900X	3100EX	U	830
Date Received	08/01/97	08/01/97	08/01/97	
Date Extracted	08/06/97	08/06/97	08/06/97	
Date Analyzed	08/26/97	08/27/97	08/27/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	B-23	B-16	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKUJ	971744A-06	971744A-07	
Method Blank I.D.	SBLKUJ	SBLKUJ	SBLKUJ	
Quant. Factor	1.00	1.10	1.06	
Dibenzofuran	U	9J	58J	330
2,4-Dinitrotoluene	U	U	U	330
Diethylphthalate	8J	U	16JB u	330
4-Chlorophenyl-phenylether	U	U	U	330
Fluorene	U	14J	160J	330
4-Nitroaniline	U	U	U	830
4,6-Dinitro-2-methylphenol	U	U	U	830
N-Nitrosodiphenylamine (1)	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	330
Hexachlorobenzene	U	U	U	830
Pentachlorophenol	U	U	U	330
Phenanthrene	U	200J	1600	330
Anthracene	U	35J	340J	330
Carbazole	U	25J	200J	330
Di-n-butylphthalate	14J	18JB u	26JB u	330
Fluoranthene	U	300J	2400	330
Pyrene	U	160J	1200	330
Butylbenzylphthalate	U	U	U	330
3,3'-Dichlorobenzidine	U	U	U	330
Benzo(a)anthracene	U	130J	1200	330
Chrysene	U	170J	1400	330
Bis(2-Ethylhexyl)phthalate	12J	32JB u	25JB u	330
Di-n-octylphthalate	U	U	U	330
Benzo(b)fluoranthene	U	160J	1300	330
Benzo(k)fluoranthene	U	150J	1100	330
Benzo(a)pyrene	U	130J	1100	330
Indeno(1,2,3-cd)pyrene	U	43J	280J	330
Dibenz(a,h)anthracene	U	12J	U	330
Benzo(g,h,i)perylene	U	20J	78J	330
Date Received		08/01/97	08/01/97	
Date Extracted	08/06/97	08/06/97	08/06/97	
Date Analyzed	08/26/97	08/26/97	08/26/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-16 MS	B-16 MSD	B-17	Quant. Limits with no Dilution
Lab Sample I.D.	971744A-07MS	971744A-07	971744A-08	
Method Blank I.D.	SBLKUJ	SBLKUJ	SBLKUJ	
Quant. Factor	1.06	1.06	1.08	
Dibenzofuran	37J	46J	26J	330
2,4-Dinitrotoluene	1600X	2100X	U	330
Diethylphthalate	14JB	18JB u	16JB u	330
4-Chlorophenyl-phenylether	U	U	U	330
Fluorene	94J	150J	U	330
4-Nitroaniline	U	U	U	830
4,6-Dinitro-2-methylphenol	U	U	U	830
N-Nitrosodiphenylamine (1)	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	330
Hexachlorobenzene	U	U	U	330
Pentachlorophenol	1300X	980X	U	830
Phenanthrene	1200	1500	110J	330
Anthracene	190J	270J	14J	330
Carbazole	140J	210J	U	330
Di-n-butylphthalate	27JB	26JB	21JB u	330
Fluoranthene	2000	2300	120J	330
Pyrene	1700X	2200X	130J	330
Butylbenzylphthalate	U	U	U	330
3,3'-Dichlorobenzidine	U	U	U	330
Benzo(a)anthracene	960	1100	67J	330
Chrysene	1300	1400	99J	330
Bis(2-Ethylhexyl)phthalate	21JB	43JB	38JB u	330
Di-n-octylphthalate	U	U	U	330
Benzo(b)fluoranthene	1100	1400	88J	330
Benzo(k)fluoranthene	1200	1000	79J	330
Benzo(a)pyrene	970	1100	84J	330
Indeno(1,2,3-cd)pyrene	260J	130J	89J	330
Dibenz(a,h)anthracene	U	60J	U	330
Benzo(g,h,i)perylene	100J	27J	53J	330
Date Received	08/01/97	08/01/97	08/01/97	
Date Extracted	08/06/97	08/06/97	08/06/97	
Date Analyzed	08/26/97	08/27/97	08/27/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-21(0-2)	B-21(0-2) RE		Quant. Limits with no Dilution
Lab Sample I.D.	971744A-09	971744A-09RE		
Method Blank I.D.	SBLKUJ	SBLKUJ		
Quant. Factor	1.06	1.06		
Phenol	U	U		330
bis(2-Chloroethyl) ether	U	U		330
2-Chlorophenol	U	U		330
1,3-Dichlorobenzene	U	U		330
1,4-Dichlorobenzene	U	U		330
1,2-Dichlorobenzene	U	U		330
2-Methylphenol	U	U		330
2,2'-oxybis(1-Chloropropane)	U	U		330
4-Methylphenol	U	U		330
N-Nitroso-di-n-propylamine	U	U		330
Hexachloroethane	U	U		330
Nitrobenzene	U	U		330
Isophorone	U	U		330
2-Nitrophenol	U	U		330
2,4-Dimethylphenol	U	U		330
bis(2-Chloroethoxy)methane	U	U		330
2,4-Dichlorophenol	U	U		330
1,2,4-Trichlorobenzene	U	U		330
Naphthalene	19J	40J		330
4-Chloroaniline	U	U		330
Hexachlorobutadiene	U	U		330
4-Chloro-3-methylphenol	U	U		330
2-Methylnaphthalene	30J	32J		330
Hexachlorocyclopentadiene	U	U		330
2,4,6-Trichlorophenol	U	U		830
2,4,5-Trichlorophenol	U	U		330
2-Chloronaphthalene	U	U		830
2-Nitroaniline	U	U		330
Dimethylphthalate	U	U		330
Acenaphthylene	U	U		330
2,6-Dinitrotoluene	U	U		830
3-Nitroaniline	U	U		330
Acenaphthene	U	U		830
2,4-Dinitrophenol	U	U		830
4-Nitrophenol	U	U		830
Date Received	08/01/97	08/01/97		
Date Extracted	08/06/97	08/06/97		
Date Analyzed	08/26/97	08/27/97		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-21(0-2)	B-21(0-2) RE		Quant. Limits with no Dilution
Lab Sample I.D.	971744A-09	971744A-09RE		
Method Blank I.D.	SBLKUJ	SBLKUJ		
Quant. Factor	1.06	1.06		
Dibenzofuran	U	U		330
2,4-Dinitrotoluene	U	U		330
Diethylphthalate	U	U		330
4-Chlorophenyl-phenylether	U	U		330
Fluorene	U	U		330
4-Nitroaniline	U	U		830
4,6-Dinitro-2-methylphenol	U	U		830
N-Nitrosodiphenylamine (1)	U	U		330
4-Bromophenyl-phenylether	U	U		330
Hexachlorobenzene	U	U		330
Pentachlorophenol	U	U		830
Phenanthrene	65J	71J		330
Anthracene	27J	32J		330
Carbazole	U	U		330
Di-n-butylphthalate	U	U		330
Fluoranthene	U	U		330
Pyrene	U	U		330
Butylbenzylphthalate	U	U		330
3,3'-Dichlorobenzidine	U	U		330
Benzo(a)anthracene	U	U		330
Chrysene	U	U		330
Bis(2-Ethylhexyl)phthalate	U	110JB		330
Di-n-octylphthalate	U	U		330
Benzo(b)fluoranthene	U	U		330
Benzo(k)fluoranthene	U	U		330
Benzo(a)pyrene	U	U		330
Indeno(1,2,3-cd)pyrene	U	U		330
Dibenz(a,h)anthracene	U	U		330
Benzo(g,h,i)perylene	U	U		330
Date Received	08/01/97	08/01/97		
Date Extracted	08/06/97	08/06/97		
Date Analyzed	08/26/97	08/27/97		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1744A
GERAGHTY & MILLER
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: SBLKSJ

Lab Sample Id: SBLKSJ Client Sample Id: Method Blank

CAS#	Compound	RT	Estimated Conc., ug/L
111-76-2	UNKNOWN	5.91	7J
	ETHANOL, 2-BUTOXY-	7.84	3JN
	UNKNOWN ALKANE	27.43	3J
	UNKNOWN ALKANE	26.20	2J
	UNKNOWN ALKANE	26.79	2J

Lab Sample Id: 971744A-02 Client Sample Id: FB-3

CAS#	Compound	RT	Estimated Conc., ug/L
	UNKNOWN	~~5.90~~	~~11JB~~ R
	UNKNOWN	33.15	2J
	UNKNOWN	15.53	2J
	UNKNOWN SILOXANE	24.27	2J

Lab Sample Id: 971744A-04 Client Sample Id: FB 073197

CAS#	Compound	RT	Estimated Conc., ug/L
	UNKNOWN	5.90	4J
	UNKNOWN	15.52	2J
	UNKNOWN ACID	15.16	2J

See Appendix for qualifier definitions

TABLE SV-2.1
7097-1744A
GERAGHTY & MILLER
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: SBLKKJ

Lab Sample Id: SBLKKJ Client Sample Id: Method Blank

CAS#	Compound	RT	Estimated Conc., ug/Kg
	ALDOL CONDENSATION PRODUCT	6.56	4000JA R
	UNKNOWN	5.95	520J
	UNKNOWN	8.08	240J
	UNKNOWN C7H14 ISOMER	5.48	220J
	UNKNOWN C6H12 ISOMER	6.31	210J
	UNKNOWN	3.65	80J
	UNKNOWN	9.84	73J
	UNKNOWN	15.53	71J
	UNKNOWN	8.51	70J
	UNKNOWN	12.14	69J

Lab Sample Id: 971744A-01 Client Sample Id: TPVII S

CAS#	Compound	RT	Estimated Conc., ug/Kg
	UNKNOWN PENTACHLOROBIPHENYL	22.85	6900J
	UNKNOWN TETRACHLOROBIPHENYL	22.78	4800J
	UNKNOWN PENTACHLOROBIPHENYL	23.48	4600J
	UNKNOWN PENTACHLOROBIPHENYL	23.90	3600J
	ALDOL CONDENSATION PRODUCT	6.50	3500JAB R
	UNKNOWN TETRACHLOROBIPHENYL	22.50	3500J
	UNKNOWN TETRACHLOROBIPHENYL	22.43	3400J
	UNKNOWN PENTACHLOROBIPHENYL	22.95	3300J
	UNKNOWN TETRACHLOROBIPHENYL	21.74	2700J
	UNKNOWN PENTACHLOROBIPHENYL	23.31	2600J
	UNKNOWN TETRACHLOROBIPHENYL	21.96	2600J
	UNKNOWN PENTACHLOROBIPHENYL	23.22	2500J
	UNKNOWN PENTACHLOROBIPHENYL	24.33	2500J
	UNKNOWN TETRACHLOROBIPHENYL	21.36	2500J
	UNKNOWN	28.60	2200J
	UNKNOWN HEXACHLOROBIPHENYL I	24.68	2200J
	UNKNOWN HEXACHLOROBIPHENYL I	24.22	2000J
	UNKNOWN HEXACHLOROBIPHENYL I	24.11	1700J
	UNKNOWN PENTACHLOROBIPHENYL	23.66	1700J
	UNKNOWN C7H14 ISOMER	5.42	1600JB
	UNKNOWN C7H14 ISOMER	6.19	1600JB

See Appendix for qualifier definitions

TABLE SV-2.2
7097-1744A
GERAGHTY & MILLER
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: SBLKKJ

Lab Sample Id: 971744A-01RE Client Sample Id: TPVII SRE

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
UNKNOWN	PENTACHLOROBIPHENYL	23.43	6200J
UNKNOWN	TETRACHLOROBIPHENYL	22.44	5900J
UNKNOWN	PENTACHLOROBIPHENYL	23.87	4200J
UNKNOWN	HEXACHLOROBIPHENYL I	24.07	4100J
UNKNOWN	TETRACHLOROBIPHENYL	22.37	4100J
UNKNOWN	TETRACHLOROBIPHENYL	21.31	4100J
UNKNOWN	HEXACHLOROBIPHENYL I	23.99	4000J
UNKNOWN	PENTACHLOROBIPHENYL	22.80	4000J
UNKNOWN	HEXACHLOROBIPHENYL I	23.80	3900J
UNKNOWN	PENTACHLOROBIPHENYL	23.63	3500J
UNKNOWN	TETRACHLOROBIPHENYL	21.69	3400J
	~~ALDOL CONDENSATION PRODUCT~~	~~6.45~~	~~3200JAB~~ R
UNKNOWN	PENTACHLOROBIPHENYL	23.34	3200J
UNKNOWN	TETRACHLOROBIPHENYL	22.72	3100J
UNKNOWN	HEXACHLOROBIPHENYL I	24.20	3000J
UNKNOWN	PENTACHLOROBIPHENYL	23.26	3000J
UNKNOWN	PENTACHLOROBIPHENYL	23.17	2800J
UNKNOWN	PENTACHLOROBIPHENYL	24.31	2500J
UNKNOWN	PENTACHLOROBIPHENYL	23.69	2300J
UNKNOWN	TETRACHLOROBIPHENYL	21.38	2300J
UNKNOWN		24.55	2200J

See Appendix for qualifier definitions

7097-1744A
GERAGHTY & MILLER
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: SBLKUJ

Lab Sample Id: SBLKUJ Client Sample Id: Method Blank

CAS#	Compound	RT	Estimated Conc., ug/Kg
	~~ALDOL CONDENSATION PRODUCT~~	~~6.55~~	~~3500JA~~ R
	UNKNOWN	5.94	440J
	UNKNOWN	8.07	220J
	UNKNOWN C17H14 ISOMER	5.46	200J
	UNKNOWN C6H12 ISOMER	6.28	190J
	UNKNOWN	15.54	76J
	UNKNOWN	12.14	72J
	UNKNOWN	9.84	68J

Lab Sample Id: 971744A-06 Client Sample Id: B-23

CAS#	Compound	RT	Estimated Conc., ug/Kg
14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	31.68	5700JN
	~~ALDOL CONDENSATION PRODUCT~~	~~6.58~~	~~4600JAB~~ R
	UNKNOWN C6H12 ISOMER	6.21	2900JB
	UNKNOWN C7H14 ISOMER	5.48	2400JB
	UNKNOWN ALKANE	28.97	1700J
	UNKNOWN	32.24	1000J
	UNKNOWN ALKANE	27.45	860J
	UNKNOWN	33.23	790J
	UNKNOWN	5.94	590JB
	UNKNOWN	34.21	320J
	UNKNOWN C20H12 PAH	28.14	320J
	UNKNOWN ALKANE	30.96	310J
	UNKNOWN ALKANE	26.21	310J
	UNKNOWN	4.41	260J
	UNKNOWN	8.04	240J
	UNKNOWN	31.97	240J
	UNKNOWN	8.08	230JB
	UNKNOWN	27.12	200J
	UNKNOWN	29.61	200J
	UNKNOWN	29.24	190J
	UNKNOWN ALKANE	29.88	190J

See Appendix for qualifier definitions

7097-1744A
GERAGHTY & MILLER
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: SBLKUJ

Lab Sample Id: 971744A-07 Client Sample Id: B-16

CAS#	Compound	RT	Estimated Conc., ug/Kg
14021-23-9	~~ALDOL CONDENSATION PRODUCT~~	~~6.60~~	~~6800JAB~~
	D-FRIEDOOLEAN-14-ENE, 3-METH	31.66	3500JN
	UNKNOWN C6H12 ISOMER	6.30	2200JB
	UNKNOWN C7H14 ISOMER	5.46	2100JB
	UNKNOWN	5.93	990JB
	UNKNOWN C20H12 PAH	28.13	940J
	UNKNOWN	4.39	780J
	UNKNOWN	32.23	700J
	UNKNOWN	31.97	540J
	UNKNOWN ALKANE	27.44	530J
	UNKNOWN	33.21	440J
	UNKNOWN ALKANE	28.95	370J
	UNKNOWN	6.19	340J
	UNKNOWN	21.22	320J
	UNKNOWN C17H12 PAH	23.61	320J
	UNKNOWN C19H14 PAH	26.20	260J
	UNKNOWN C20H12 PAH	27.74	260J
	UNKNOWN	8.08	250JB
	UNKNOWN	8.05	250J
	UNKNOWN C20H12 PAH	28.43	250J
	UNKNOWN C18H10 ISOMER	24.99	250J

Lab Sample Id: 971744A-08 Client Sample Id: B-17

CAS#	Compound	RT	Estimated Conc., ug/Kg
14021-23-9	~~ALDOL CONDENSATION PRODUCT~~	~~6.51~~	~~5300JAB~~
	UNKNOWN C7H14 ISOMER	5.40	2100JB
	D-FRIEDOOLEAN-14-ENE, 3-METH	31.52	1900JN
	UNKNOWN C6H12 ISOMER	6.21	1300JB
	UNKNOWN	6.15	1200J
	UNKNOWN	5.87	610JB
	UNKNOWN	32.08	440J
	UNKNOWN ALKANE	15.46	400J
	UNKNOWN	4.32	380J
	UNKNOWN	31.83	330J
	UNKNOWN	33.05	280J
	UNKNOWN	8.01	260JB
	UNKNOWN ALKANE	16.59	180J
	UNKNOWN ALKANE	16.18	170J
	UNKNOWN ALKANE	18.68	170J
	UNKNOWN	7.98	160J
	UNKNOWN ALKANE	14.22	160J
	.GAMMA.-SITOSTEROL	32.33	140JN
83-47-6			

See Appendix for qualifier definitions

7097-1744A
GERAGHTY & MILLER
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: SBLKUJ

Lab Sample Id: 971744A-08 Client Sample Id: B-17 (Cont.)

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
	UNKNOWN ALKANE	15.19	140J
	UNKNOWN	9.06	130J
	UNKNOWN ALKANE	13.85	130J

Lab Sample Id: 971744A-09 Client Sample Id: B-21(0-2)

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
	UNKNOWN PENTACHLOROBIPHENYL	22.83	14000J
	UNKNOWN PENTACHLOROBIPHENYL	23.52	13000J
	UNKNOWN PENTACHLOROBIPHENYL	22.91	10000J
	UNKNOWN PENTACHLOROBIPHENYL	23.95	9900J
	UNKNOWN HEXACHLOROBIPHENYL I	24.69	8300J
	UNKNOWN HEXACHLOROBIPHENYL I	24.25	6100J
	UNKNOWN PENTACHLOROBIPHENYL	23.00	6100J
	UNKNOWN PENTACHLOROBIPHENYL	23.23	5500J
	UNKNOWN PENTACHLOROBIPHENYL	23.32	5200J
	UNKNOWN HEXACHLOROBIPHENYL I	23.85	4600J
	~~ALDOL CONDENSATION PRODUCT~~	~~6.54~~	~~4400JAB~~ R
	UNKNOWN PENTACHLOROBIPHENYL	24.36	4200J
	UNKNOWN PENTACHLOROBIPHENYL	23.68	4200J
	UNKNOWN TETRACHLOROBIPHENYL	22.51	3800J
	UNKNOWN DICHLOROBIPHENYL ISO	18.31	3100J
	UNKNOWN TETRACHLOROBIPHENYL	21.41	2900J
	~~ALDOL CONDENSATION PRODUCT~~	~~6.58~~	~~2300JAB~~ R
	UNKNOWN HEXACHLOROBIPHENYL I	24.30	2300J
	UNKNOWN HEXACHLOROBIPHENYL I	25.10	2100J
	UNKNOWN C6H12 PAH	6.28	2000J
	UNKNOWN TRICHLOROBIPHENYL IS	20.77	2000J

Lab Sample Id: 971744A-09RE Client Sample Id: B-21(0-2)RE

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
	UNKNOWN PENTACHLOROBIPHENYL	23.50	13000J
	UNKNOWN PENTACHLOROBIPHENYL	23.91	9900J
	UNKNOWN PENTACHLOROBIPHENYL	22.86	9800J
	UNKNOWN HEXACHLOROBIPHENYL I	24.66	8400J
	UNKNOWN TETRACHLOROBIPHENYL	22.77	7600J
	~~ALDOL CONDENSATION PRODUCT~~	~~6.50~~	~~6700JAB~~ R
	UNKNOWN PENTACHLOROBIPHENYL	22.96	6000J
	UNKNOWN HEXACHLOROBIPHENYL I	23.81	5800J

See Appendix for qualifier definitions

7097-1744A
GERAGHTY & MILLER
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: SBLKUJ

Lab Sample Id: 971744A-09RE Client Sample Id: B-21(0-2)RE (Cont.)

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
UNKNOWN	HEXACHLOROBIPHENYL I	24.21	5500J
UNKNOWN	PENTACHLOROBIPHENYL	23.28	5100J
UNKNOWN	PENTACHLOROBIPHENYL	23.20	4800J
UNKNOWN		25.80	4300J
UNKNOWN	PENTACHLOROBIPHENYL	24.32	4300J
UNKNOWN	TETRACHLOROBIPHENYL	22.49	4200J
UNKNOWN	HEXACHLOROBIPHENYL I	25.07	3600J
UNKNOWN	PENTACHLOROBIPHENYL	23.64	3400J
UNKNOWN	TETRACHLOROBIPHENYL	22.81	3400J
UNKNOWN	HEXACHLOROBIPHENYL I	24.27	3200J
UNKNOWN	HEPTACHLOROBIPHENYL	26.06	3100J
UNKNOWN		27.55	2700J
UNKNOWN	HEXACHLOROBIPHENYL I	24.76	2300J

See Appendix for qualifier definitions

7097-1744A
GERAGHTY & MILLER
8080 POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/L.

Client Sample I.D.	Method Blank	PBLK82 QC	FB-3	Quant. Limits with no Dilution
Lab Sample I.D.	080497-B04	080497-B04QC	971744A-02	
Method Blank I.D.	PBLK82	PBLK82	PBLK82	
Quant. Factor	1.00	1.00	1.00	
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	U	U	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	0.11J	1.0
Aroclor-1260	U	7.3X	U	1.0
Date Received			07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/07/97	08/07/97	08/07/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

7097-1744A
GERAGHTY & MILLER
8080 POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/L.

Client Sample I.D.	FB 073197			Quant. Limits with no Dilution
Lab Sample I.D.	971744A-04			
Method Blank I.D.	PBLK82			
Quant. Factor	1.00			
Aroclor-1016	U			1.0
Aroclor-1221	U			2.0
Aroclor-1232	U			1.0
Aroclor-1242	U			1.0
Aroclor-1248	0.12J			1.0
Aroclor-1254	0.082J			1.0
Aroclor-1260	U			1.0
Date Received	08/01/97			
Date Extracted	08/04/97			
Date Analyzed	08/07/97			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1744A
GERAGHTY & MILLER
8080 POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	TPVII S	B-23	Quant. Limits with no Dilution
Lab Sample I.D.	080497-B02	971744A-01	971744A-06	
Method Blank I.D.	PBLK81	PBLK81	PBLK81	
Quant. Factor	1.00	556.	5.38	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	U	50000	U	33
Aroclor-1254	U	48000	360	33
Aroclor-1260	U	U	U	33
Date Received		07/31/97	08/01/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/07/97	08/08/97	08/13/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1744A
GERAGHTY & MILLER
8080 POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-16	B-16 MS	B-16 MSD 971744A-07	Quant. Limits with no Dilution
Lab Sample I.D.	971744A-07	971744A-07MS	MSD	
Method Blank I.D.	PBLK81	PBLK81	PBLK81	
Quant. Factor	1.06	1.06	1.06	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	8.8J	17.J	16.J	33
Aroclor-1254	52.	63.	58.	33
Aroclor-1260	U	78.X	87.X	33
Date Received	08/01/97	08/01/97	08/01/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/07/97	08/07/97	08/07/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1744A
GERAGHTY & MILLER
8080 POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-17	B-21(0-2)		
Lab Sample I.D.	971744A-08	971744A-09		Quant. Limits with no Dilution
Method Blank I.D.	PBLK81	PBLK81		
Quant. Factor	1.08	1060		
Aroclor-1016	U	U		33
Aroclor-1221	U	U		67
Aroclor-1232	U	U		33
Aroclor-1242	U	U		33
Aroclor-1248	U	170000		33
Aroclor-1254	230	120000		33
Aroclor-1260	U	U		33
Date Received	08/01/97	08/01/97		
Date Extracted	08/04/97	08/04/97		
Date Analyzed	08/07/97	08/13/97		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE AS-1.0
7097-1744A
GERAGHTY & MILLER
TAL METALS

Aqueous

All values are ug/L.

Client Sample I.D.	FB-3	FB 073197		
Lab Sample I.D.	971744A-02	971744A-04		
Aluminum	32.0U	398.		
Antimony	8.0U	8.0U		
Arsenic	3.0U	3.0U		
Barium	1.0U	1.6B		
Beryllium	1.0U	1.0U		
Cadmium	1.0U	1.0U		
Calcium	117.B	220.B		
Chromium	1.0U	2.8B		
Cobalt	1.0U	1.0U		
Copper	2.3B	10.6B		
Iron	39.5B	57.2B		
Lead	1.6B	1.0U		
Magnesium	20.8B	48.7B		
Manganese	1.2B	21.9		
Mercury	0.20U	0.20U		
Nickel	6.9B	3.2B		
Potassium	442.U	442.U		
Selenium	3.0U	3.0U		
Silver	1.0U	1.0U		
Sodium	685.B	617.B		
Thallium	3.0U	3.0U		
Vanadium	1.0U	1.0U		
inc	18.9B	48.6		

See Appendix for qualifier definitions

TABLE AS-1.1
7097-1744A
GERAGHTY & MILLER
TAL METALS

All values are mg/Kg dry weight basis.

Client Sample I.D.	TPVII S	B-23	B-16	B-16 D
Lab Sample I.D.	971744A-01	971744A-06	971744A-07	971744A-07D
Aluminum	3880	6500	3610	3890
Antimony	1.8U	1.7U	1.5U	5.8B
Arsenic	14.6N	2.9N	2.2N	2.4
Barium	41.1BN	39.5BN	34.3BN	28.4B
Beryllium	0.26BN	0.30BN	0.25BN	0.29B
Cadmium	2.7N	0.48BN	0.42BN	0.46B
Calcium	6480*	2230*	5480*	12500*
Chromium	34.8N	11.8N	4.5N	4.8
Cobalt	2.0BN	1.6BN	1.6BN	1.7B
Copper	77.7N	41.8N	15.9N	17.1
Iron	8700	9880	4930	5790
Lead	107.*	106.*	120.*	482.*
Magnesium	3490	731.B	2690	6340
Manganese	80.3N	176.N	121.N	129.
Mercury	0.52	1.1	0.10U	0.097U
Nickel	34.6N	10.4N	4.1BN	4.9B
Potassium	152.BE	142.BE	190.BE	243.B
Selenium	0.84BN	1.1N	0.78BN	0.62U
Silver	0.37B	0.21U	0.19U	0.21U
Sodium	56.8B	76.8B	48.9B	42.9B
Thallium	0.66UN	0.64UN	0.58UN	0.62U
Vanadium	9.1BN	12.4N	7.5BN	7.6B
inc	146.N	92.5N	116.N	115.

See Appendix for qualifier definitions

7097-1744A
GERAGHTY & MILLER
TAL METALS

All values are mg/Kg dry weight basis.

Client Sample I.D.	B-16 S	B-17	B-21(0-2)	
Lab Sample I.D.	971744A-07S	971744A-08	971744A-09	
Aluminum	5770	3740	4560	
Antimony	76.3	1.5U	1.6U	
Arsenic	79.4N	3.4N	2.4N	
Barium	72.2N	22.0BN	12.5BN	
Beryllium	1.3N	0.24BN	0.23BN	
Cadmium	10.1N	0.39BN	0.19UN	
Calcium	NR	3400*	3500*	
Chromium	10.3N	5.9N	5.8N	
Cobalt	11.7N	1.8BN	1.3BN	
Copper	21.8N	78.8N	8.4N	
Iron	6550	6600	5660	
Lead	151.	62.3*	19.5*	
Magnesium	NR	1750	2070	
Manganese	137.N	60.0N	106.N	
Mercury	0.57	3.7	0.10U	
Nickel	15.2N	5.9BN	3.4BN	
Potassium	NR	141.BE	154.BE	
Selenium	19.9N	0.62BN	0.63BN	
Silver	0.77B	0.18U	0.19U	
Sodium	NR	33.4B	75.8B	
Thallium	100.N	0.56UN	0.58UN	
Vanadium	19.9N	7.9BN	7.1BN	
inc	142.N	61.5N	22.9N	

See Appendix for qualifier definitions

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-489-01
Project:	7097-1744A	Sample:	TP VII South
Report Date:	08/07/97	Type:	Soil
Collected:	07/30/97	Container:	Glass
Received:	08/04/97		
Analyzed:	08/05/97	Dilution Factor:	1.2
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1.2	BQL
2	n-Butylbenzene	1.2	BQL
3	s-Butylbenzene	1.2	BQL
4	t-Butylbenzene	1.2	BQL
5	Ethylbenzene	1.2	BQL
6	Isopropylbenzene	1.2	BQL
7	Isopropyltoluene	1.2	BQL
8	Methyl-t-butylether	1.2	BQL
9	Naphthalene	1.2	BQL
10	n-Propylbenzene	1.2	BQL
11	Toluene	1.2	BQL
12	1,2,4-Trimethylbenzene	1.2	BQL
13	1,3,5-Trimethylbenzene	1.2	BQL
14	Xylenes (Total)	1.2	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 69 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	AEN ID:	Method Blank (08/05)
Project:	Sample:	
Report Date: 08/07/97	Type:	Soil
Collected:	Container:	
Received:		
Analyzed: 08/05/97	Dilution Factor:	1
By: GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 72 %

Comments:

PQL = Practical quantitation limit.

BQL = Below quantitation limit.

Dilution factor adjusted for moisture content of the sample.

Corresponding Samples: 0070-489-01

TABLE AS 1-0
7098-0965A
GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	17 NORTH	17 SOUTH	17 EAST	17 BOTTOM
Lab Sample I.D.	980965A-01	980965A-02	980965A-03	980965A-04
Mercury	0.094UN	0.12N	0.10UN	0.10UN

See Appendix for qualifier definitions

7098-0973A

GERAGHTY & MILLER

MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	23 NORTH	23 SOUTH	23 EAST	23 BOTTOM
Lab Sample I.D.	980973A-01	980973A-02	980973A-03	980973A-04
Chromium	NR	NR	NR	NR
Mercury	0.088UN	0.11UN	0.10UN	0.10UN

See Appendix for qualifier definitions

7098-0973A

GERAGHTY & MILLER

MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	23 WEST			
Lab Sample I.D.	980973A-05			
Chromium	5.0			
Mercury	0.081UN			

See Appendix for qualifier definitions

TABLE GC-1.0
7099-3040A
ARCADIS/GERAGHTY & MILLER
8082 POLYCHLORINATED BIPHENYLS (PCB's)

Aqueous

All values are ug/L.

Client Sample I.D.	Method Blank	PBLK29 QC	FB111299	Quant. Limits with no Dilution
Lab Sample I.D.	111599-B02	111599-B02QC	993040A-07	
Method Blank I.D.	PBLK29	PBLK29	PBLK29	
Quant. Factor	1.00	1.00	1.00	
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	3.8X	U	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	U	1.0
Aroclor-1260	U	3.3X	U	1.0
Date Received			11/13/99	
Date Extracted	11/15/99	11/15/99	11/15/99	
Date Analyzed	11/20/99	11/20/99	11/20/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7099-3040A

ARCADIS/GERAGHTY & MILLER

8082 POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	PBLK35 QC	SAMPLE A	Quant. Limits with no Dilution
Lab Sample I.D.	111799-B02	111799-B02QC	993040A-01	
Method Blank I.D.	PBLK35	PBLK35	PBLK35	
Quant. Factor	1.00	1.00	25.5	
Aroclor-1016	U	U	U	33.
Aroclor-1221	U	U	U	67.
Aroclor-1232	U	U	U	33.
Aroclor-1242	U	120X	U	33.
Aroclor-1248	U	U	510J	33.
Aroclor-1254	U	U	1200	33.
Aroclor-1260	U	120X	490J	33.
Date Received			11/13/99	
Date Extracted	11/17/99	11/17/99	11/17/99	
Date Analyzed	11/23/99	11/23/99	11/24/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor

Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7099-3040A

ARCADIS/GERAGHTY & MILLER

8082 POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

Client Sample I.D.	SAMPLE B	SAMPLE C	SAMPLE D	Quant. Limits with no Dilution
Lab Sample I.D.	993040A-02	993040A-03	993040A-04	
Method Blank I.D.	PBLK35	PBLK35	PBLK35	
Quant. Factor	56.6	23.4	24.9	
Aroclor-1016	U	U	U	33.
Aroclor-1221	U	U	U	67.
Aroclor-1232	U	U	U	33.
Aroclor-1242	U	U	U	33.
Aroclor-1248	U	U	U	33.
Aroclor-1254	3700	1400	2100	33.
Aroclor-1260	U	950	1900	33.
Date Received	11/13/99	11/13/99	11/13/99	
Date Extracted	11/17/99	11/17/99	11/17/99	
Date Analyzed	11/24/99	11/24/99	11/24/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

7099-3040A

ARCADIS/GERAGHTY & MILLER

8082 POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

Client Sample I.D.	SAMPLE E	SAMPLE F	SAMPLE F MS	Quant. Limits with no Dilution
Lab Sample I.D.	993040A-05	993040A-06	993040A-06MS	
Method Blank I.D.	PBLK35	PBLK35	PBLK35	
Quant. Factor	74.2	31.5	31.7	
Aroclor-1016	U	U	U	33.
Aroclor-1221	U	U	U	67.
Aroclor-1232	U	U	U	33.
Aroclor-1242	U	U	U	33.
Aroclor-1248	U	U	U	33.
Aroclor-1254	6900	3500	1900	33.
Aroclor-1260	U	U	UX	33.
Date Received	11/13/99	11/13/99	11/13/99	
Date Extracted	11/17/99	11/17/99	11/17/99	
Date Analyzed	11/24/99	11/24/99	11/24/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor

Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7099-3040A

ARCADIS/GERAGHTY & MILLER
8082 POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

Client Sample I.D.	SAMPLE F			
Lab Sample I.D.	MSD			Quant.
Method Blank I.D.	993040A-06			Limits
Quant. Factor	MSD			with no
	PBLK35			Dilution
	31.1			
Aroclor-1016	U			33.
Aroclor-1221	U			67.
Aroclor-1232	U			33.
Aroclor-1242	U			33.
Aroclor-1248	U			33.
Aroclor-1254	3700			33.
Aroclor-1260	UX			33.
Date Received	11/13/99			
Date Extracted	11/17/99			
Date Analyzed	11/24/99			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor

Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE AS-1.0
7099-3040A
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

Aqueous

All values are ug/L.

Client Sample I.D.	FB111299			
Lab Sample I.D.	993040A-07			
Mercury	0.10U			

See Appendix for qualifier definitions

TABLE AS-1.1
7099-3040A
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

Soil

All values are mg/Kg dry weight basis.

Client Sample I.D.	SAMPLE A	SAMPLE B	SAMPLE C	SAMPLE D
Lab Sample I.D.	993040A-01	993040A-02	993040A-03	993040A-04
Mercury	0.39	2.7	0.35	6.3

See Appendix for qualifier definitions

TABLE AS-1.2
7099-3040A
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

Soil

All values are mg/Kg dry weight basis.

Client Sample I.D.	SAMPLE E	SAMPLE F	SAMPLE F D	SAMPLE F S
Lab Sample I.D.	993040A-05	993040A-06	993040A-06D	993040A-06S
Mercury	7.8	9.7	9.2	8.9

See Appendix for qualifier definitions

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	B-32	B-32 RE	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKQQ	001136A-01	001136A-01RE	
Method Blank I.D.	SBLKQQ	SBLKQQ	SBLKQQ	
Quant. Factor	1.00	80.0	80.0	
Naphthalene	U	1600J	1700J	330
2-Methylnaphthalene	U	4300J	4200J	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	U	97000	90000	330
Anthracene	U	U	U	330
Fluoranthene	U	U	U	330
Pyrene	U	U	U	330
Benzo(a)anthracene	U	U	U	330
Chrysene	U	U	U	330
Benzo(b)fluoranthene	U	U	U	330
Benzo(k)fluoranthene	U	U	U	330
Benzo(a)pyrene	U	U	U	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received		06/03/00	06/03/00	
Date Extracted	06/08/00	06/08/00	06/08/00	
Date Analyzed	06/12/00	06/12/00	06/14/00	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7000-1136A
ARCADIS/GERAGHTY & MILLER
8082 POLYCHLORINATED BIPHENYL'S

0 5

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	B-32	DISP SOI L PILE 3	Quant. Limits with no Dilution
Lab Sample I.D.	060600-B06	001136A-01	001136A-02	
Method Blank I.D.	PBLK97	PBLK97	PBLK97	
Quant. Factor	1.00	284.	11.3	
Aroclor-1016	U	U	U	33.
Aroclor-1221	U	U	U	67.
Aroclor-1232	U	U	U	33.
Aroclor-1242	U	U	U	33.
Aroclor-1248	U	24000	U	33.
Aroclor-1254	U	29000	1800	33.
Aroclor-1260	U	U	310J	33.
Date Received		06/03/00	06/03/00	
Date Extracted	06/06/00	06/06/00	06/06/00	
Date Analyzed	06/10/00	06/09/00	06/12/00	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

All values are ug/Kg dry weight basis.

Client Sample I.D.	PBLK97 QC			
Lab Sample I.D.	060600-B06QC			Quant. Limits
Method Blank I.D.	PBLK97			with no
Quant. Factor	1.00			Dilution
Aroclor-1016	U			33.
Aroclor-1221	U			67.
Aroclor-1232	U			33.
Aroclor-1242	200X			33.
Aroclor-1248	U			33.
Aroclor-1254	U			33.
Aroclor-1260	150X			33.
Date Received				
Date Extracted	06/06/00			
Date Analyzed	06/08/00			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	CESS (ENDPT)		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKEJ	973189B-16		
Method Blank I.D.	SBLKEJ	SBLKEJ		
Quant. Factor	1.00	1.06		
Phenol	U	U		330
bis(2-Chloroethyl) ether	U	U		330
2-Chlorophenol	U	U		330
1,3-Dichlorobenzene	U	U		330
1,4-Dichlorobenzene	U	U		330
Benzyl alcohol	U	U		330
1,2-Dichlorobenzene	U	U		330
2-Methylphenol	U	U		330
2,2'-oxybis(1-Chloropropane)	U	U		330
4-Methylphenol	U	U		330
N-Nitroso-di-n-propylamine	U	U		330
Hexachloroethane	U	U		330
Nitrobenzene	U	U		330
Isophorone	U	U		330
2-Nitrophenol	U	U		330
2,4-Dimethylphenol	U	U		330
Benzoic acid	U	U		1600
bis(2-Chloroethoxy)methane	U	U		330
2,4-Dichlorophenol	U	U		330
1,2,4-Trichlorobenzene	U	U		330
Naphthalene	U	U		330
4-Chloroaniline	U	U		330
Hexachlorobutadiene	U	U		330
4-Chloro-3-methylphenol	U	U		330
2-Methylnaphthalene	U	U		330
Hexachlorocyclopentadiene	U	U		330
2,4,6-Trichlorophenol	U	U		330
2,4,5-Trichlorophenol	U	U		1600
2-Chloronaphthalene	U	U		330
2-Nitroaniline	U	U		1600
Dimethylphthalate	U	U		330
Acenaphthylene	U	U		330
2,6-Dinitrotoluene	U	U		330
3-Nitroaniline	U	U		1600
Acenaphthene	U	U		330
Date Received		01/03/98		
Date Extracted	01/07/98	01/07/98		
Date Analyzed	01/20/98	01/20/98		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	CESS (ENDPT)		Quanc. Limits with no Dilution
Lab Sample I.D.	SBLKEJ	973189B-16		
Method Blank I.D.	SBLKEJ	SBLKEJ		
Quant. Factor	1.00	1.06		
2,4-Dinitrophenol	U	U		1600
4-Nitrophenol	U	U		1600
Dibenzofuran	U	U		330
2,4-Dinitrotoluene	U	U		330
Diethylphthalate	U	U		330
4-Chlorophenyl-phenylether	U	U		330
Fluorene	U	U		330
4-Nitroaniline	U	U		1600
4,6-Dinitro-2-methylphenol	U	U		1600
N-Nitrosodiphenylamine (1)	U	U		330
4-Bromophenyl-phenylether	U	U		330
Hexachlorobenzene	U	U		330
Pentachlorophenol	U	U		1600
Phenanthrene	U	U		330
Anthracene	U	U		330
Carbazole	U	U		330
Di-n-butylphthalate	U	U		330
Fluoranthene	U	U		330
Pyrene	U	U		330
Butylbenzylphthalate	U	U		330
3,3'-Dichlorobenzidine	U	U		660
Benzo(a)anthracene	U	U		330
Chrysene	U	U		330
bis(2-Ethylhexyl)phthalate	62J	50JB		330
Di-n-octylphthalate	U	U		330
Benzo(b)fluoranthene	U	U		330
Benzo(k)fluoranthene	U	U		330
Benzo(a)pyrene	U	U		330
Indeno(1,2,3-cd)pyrene	U	U		330
Dibenzo(a,h)anthracene	U	U		330
Benzo(g,h,i)perylene	U	U		330
Date Received		01/03/98		
Date Extracted	01/07/98	01/07/98		
Date Analyzed	01/20/98	01/20/98		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-3189B
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	B-16A		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKAH	973189B-04		
Method Blank I.D.	SBLKAH	SBLKAH		
Quant. Factor	1.00	1.06		
Naphthalene	U	U		330
2-Methylnaphthalene	U	U		330
Acenaphthylene	U	U		330
Acenaphthene	U	U		330
Fluorene	U	U		330
Phenanthrene	U	72J		330
Anthracene	U	18J		330
Fluoranthene	U	140J		330
Pyrene	U	140J		330
Benzo(a)anthracene	U	67J		330
Chrysene	U	72J		330
Benzo(b)fluoranthene	U	67J		330
Benzo(k)fluoranthene	U	56J		330
Benzo(a)pyrene	U	67J		330
Indeno(1,2,3-cd)pyrene	U	45J		330
Dibenzo(a,h)anthracene	U	U		330
Benzo(g,h,i)perylene	U	52J		330
Date Received		12/31/97		
Date Extracted	01/05/98	01/05/98		
Date Analyzed	01/08/98	01/08/98		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-3189B
GERAGHTY & MILLER
8081 PESTICIDES/PCB's

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	B-21BOTTOM	B-21SIDEWALL	Quant. Limits with no Dilution
Lab Sample I.D.	010298-B02	973189B-02	973189B-03	
Method Blank I.D.	PBLK90	PBLK90	PBLK90	
Quant. Factor	1.00	1.09	1.14	
alpha-BHC	U	U	U	1.7
beta-BHC	U	U	U	1.7
delta-BHC	U	U	U	1.7
gamma-BHC (Lindane)	U	U	U	1.7
Heptachlor	U	U	U	1.7
Aldrin	U	U	U	1.7
Heptachlor Epoxide	U	U	U	1.7
Endosulfan I	U	U	U	1.7
Dieldrin	U	U	U	3.3
4,4'-DDE	U	U	U	3.3
Endrin	U	U	U	3.3
Endosulfan II	U	U	U	3.3
4,4'-DDD	U	U	U	3.3
Endosulfan Sulfate	U	U	U	3.3
4,4'-DDT	U	U	U	3.3
Methoxychlor	U	U	U	17.
Endrin ketone	U	U	U	3.3
Endrin aldehyde	U	U	U	3.3
alpha-Chlordane	U	U	U	1.7
gamma-Chlordane	U	U	U	1.7
Toxaphene	U	U	U	33.
Aroclor-1016	U	U	U	33.
Aroclor-1221	U	U	U	67.
Aroclor-1232	U	U	U	33.
Aroclor-1242	U	U	43.	33.
Aroclor-1248	U	210	U	33.
Aroclor-1254	U	180	92.	33.
Aroclor-1260	U	U	U	33.
Date Received		12/31/97	12/31/97	
Date Extracted	01/02/98	01/02/98	01/02/98	
Date Analyzed	01/15/98	01/15/98	01/15/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

7097-3189B
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	PBLK90 QC	B-12A	Quant. Limits with no Dilution
Lab Sample I.D.	010298-B02	010298-B02QC	973189B-05	
Method Blank I.D.	PBLK90	PBLK90	PBLK90	
Quant. Factor	1.00	1.00	1.05	
Aroclor-1016	U	U	U	33.
Aroclor-1221	U	U	U	67.
Aroclor-1232	U	U	U	33.
Aroclor-1242	U	170X	U	33.
Aroclor-1248	U	U	U	33.
Aroclor-1254	U	U	19.J	33.
Aroclor-1260	U	180X	U	33.
Date Received			12/31/97	
Date Extracted	01/02/98	01/02/98	01/02/98	
Date Analyzed	01/06/98	01/06/98	01/06/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE AS-1.0
7097-3189B
GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	B-17 (ENDPT)	B-17 (NORTH)	B-17 (SOUTH)	B-17 (EAST)
Lab Sample I.D.	973189B-06	973189B-07	973189B-08	973189B-09
Chromium	NR	NR	NR	NR
Copper	7.6	16.0	24.5	22.6
Mercury	0.11U	0.21	0.50	1.1

See Appendix for qualifier definitions

7097-3189B
GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	B-17 (WEST)	B-23 (ENDPT)	B-23 (NORTH)	B-23 (SOUTH)
Lab Sample I.D.	973189B-10	973189B-11	973189B-12	973189B-13
Chromium	NR	10.6	8.5	8.0
Copper	8.4	NR	NR	NR
Mercury	0.54	1.3	6.4	0.11U

See Appendix for qualifier definitions

7097-3189B
GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	B-23 (EAST)	B-23 (WEST)		
Lab Sample I.D.	973189B-14	973189B-15		
Chromium	9.4	199.		
Copper	NR	NR		
Mercury	102.	6.7		

See Appendix for qualifier definitions

7097-2621A
 GERAGHTY & MILLER
 8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D. Lab Sample I.D. Method Blank I.D. Quant. Factor	Method Blank 102397-B04 PBLK48 1.00	PBLK48 QC2 102397-B04 QC2 PBLK48 1.00	GP-1 14'-16' 972621A-01 PBLK48 20.6	Quant. Limits with no Dilution
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	230X	U	33
Aroclor-1248	U	U	870	33
Aroclor-1254	U	U	1000	33
Aroclor-1260	U	290X	U	33
Date Received			10/23/97	
Date Extracted	10/23/97	10/23/97	10/23/97	
Date Analyzed	10/27/97	10/27/97	10/28/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

SOIL

TABLE GC-1.1
7097-2621A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	GP-1 16'-18'			Quant. Limits with no Dilution
Lab Sample I.D.	972621A-02			
Method Blank I.D.	PBLK48			
Quant. Factor	1.18			
Aroclor-1016	U			33
Aroclor-1221	U			67
Aroclor-1232	U			33
Aroclor-1242	U			33
Aroclor-1248	18.J			33
Aroclor-1254	56.			33
Aroclor-1260	U			33
Date Received	10/23/97			
Date Extracted	10/23/97			
Date Analyzed	10/27/97			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

7097-3189A
GERAGHTY & MILLER
EPA TCL PESTICIDES/PCB'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	TP-7SW		Quant. Limits with no Dilution
Lab Sample I.D.	010598-B04	973189A-01		
Method Blank I.D.	PBLK93	PBLK93		
Quant. Factor	1.00	1.08		
alpha-BHC	U	U		1.7
beta-BHC	U	U		1.7
delta-BHC	U	U		1.7
gamma-BHC (Lindane)	U	U		1.7
Heptachlor	U	U		1.7
Aldrin	0.10JP	2.1PB		1.7
Heptachlor Epoxide	U	U		1.7
Endosulfan I	U	U		1.7
Dieldrin	U	U		3.3
4,4'-DDE	U	U		3.3
Endrin	U	U		3.3
Endosulfan II	U	U		3.3
4,4'-DDD	U	U		3.3
Endosulfan Sulfate	U	U		3.3
4,4'-DDT	U	1.4JP		3.3
Methoxychlor	U	U		17.
Endrin Ketone	U	U		3.3
Endrin Aldehyde	U	U		3.3
alpha-Chlordane	U	U		1.7
gamma-Chlordane	U	U		1.7
Toxaphene	U	U		170
Aroclor-1016	U	U		33.
Aroclor-1221	U	U		67.
Aroclor-1232	U	U		33.
Aroclor-1242	U	U		33.
Aroclor-1248	U	U		33.
Aroclor-1254	U	63.		33.
Aroclor-1260	U	U		33.
Date Received		12/31/97		
Date Extracted	01/05/98	01/05/98		
Date Analyzed	01/10/98	01/10/98		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-3189A
GERAGHTY & MILLER
TAL METALS

All values are mg/Kg dry weight basis.

Client Sample I.D.	TP-7SW			
Lab Sample I.D.	973189A-01			
Aluminum	3810			
Antimony	0.88B			
Arsenic	1.5B			
Barium	14.4B			
Beryllium	0.22U			
Cadmium	0.22UN			
Calcium	1040B			
Chromium	4.2			
Cobalt	0.70B			
Copper	8.7			
Iron	4040			
Lead	27.8			
Magnesium	330.B			
Manganese	51.2			
Mercury	0.079U			
Nickel	3.3B			
Potassium	96.0B			
Selenium	1.1B			
Silver	0.22U			
Sodium	30.8B			
Thallium	0.44UN			
Vanadium	6.8B			
Zinc	50.3N			

See Appendix for qualifier definitions

TABLE GC-1.2
7000-1099A
ARCADIS/GERAGHTY & MILLER
8082 POLYCHLORINATED BIPHENYL'S

0005
Soil

All values are ug/Kg dry weight basis.

Client Sample I.D. Lab Sample I.D. Method Blank I.D. Quant. Factor	NP-A 001099A-04 PBLK93 2.12	NP-B 001099A-05 PBLK93 1.04	NP-C 001099A-06 PBLK93 2.58	Quant. Limits with no Dilution
Aroclor-1016	U	U	U	33.
Aroclor-1221	U	U	U	67.
Aroclor-1232	U	U	U	33.
Aroclor-1242	U	U	U	33.
Aroclor-1248	U	41.	83.J	33.
Aroclor-1254	390	88.	350	33.
Aroclor-1260	120	38.	150	33.
Date Received	06/02/00	06/02/00	06/02/00	
Date Extracted	06/05/00	06/05/00	06/05/00	
Date Analyzed	06/08/00	06/07/00	06/08/00	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE GC-1.3
7000-1099A
ARCADIS/GERAGHTY & MILLER
8082 POLYCHLORINATED BIPHENYL'S

0006
Soil

All values are ug/Kg dry weight basis.

Client Sample I.D.	NP-D	NP-E	BLD2 A	Quant. Limits with no Dilution
Lab Sample I.D.	001099A-07	001099A-08	001099A-09	
Method Blank I.D.	PBLK93	PBLK93	PBLK93	
Quant. Factor	2.34	5.62	1.17	
Aroclor-1016	U	U	U	33.
Aroclor-1221	U	U	U	67.
Aroclor-1232	U	U	U	33.
Aroclor-1242	U	U	U	33.
Aroclor-1248	60.J	120J	U	33.
Aroclor-1254	440	740	42.	33.
Aroclor-1260	170	420	U	33.
Date Received	06/02/00	06/02/00	06/02/00	
Date Extracted	06/05/00	06/05/00	06/05/00	
Date Analyzed	06/08/00	06/08/00	06/07/00	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE GC-1.4
7000-1099A
ARCADIS/GERAGHTY & MILLER
8082 POLYCHLORINATED BIPHENYL'S

0007

Soil

All values are ug/Kg dry weight basis.

Client Sample I.D.	BLD2 B	BLD2 C	BLD2 D	Quant. Limits with no Dilution
Lab Sample I.D.	001099A-10	001099A-11	001099A-12	
Method Blank I.D.	PBLK93	PBLK93	PBLK93	
Quant. Factor	5.75	2.06	6.45	
Aroclor-1016	U	U	U	33.
Aroclor-1221	U	U	U	67.
Aroclor-1232	U	U	U	33.
Aroclor-1242	U	U	U	33.
Aroclor-1248	U	U	U	33.
Aroclor-1254	500	240	560	33.
Aroclor-1260	240	120	270	33.
Date Received	06/02/00	06/02/00	06/02/00	
Date Extracted	06/05/00	06/05/00	06/05/00	
Date Analyzed	06/08/00	06/09/00	06/09/00	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE GC-1.5
7000-1099A
ARCADIS/GERAGHTY & MILLER
8082 POLYCHLORINATED BIPHENYL'S

0008 Soil

All values are ug/Kg dry weight basis.

Client Sample I.D.	PBLK93 QC			Quant. Limits with no Dilution
Lab Sample I.D.	060500-B02QC			
Method Blank I.D.	PBLK93			
Quant. Factor	1.00			
Aroclor-1016	U			33.
Aroclor-1221	U			67.
Aroclor-1232	U			33.
Aroclor-1242	130X			33.
Aroclor-1248	U			33.
Aroclor-1254	U			33.
Aroclor-1260	160X			33.
Date Received				
Date Extracted	06/05/00			
Date Analyzed	06/07/00			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor

Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE AS-1.0
7000-1099A
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

000g Soil

All values are mg/Kg dry weight basis.

Client Sample I.D.	NP1-1	NP1-2	NP1-3	NP-A
Lab Sample I.D.	001099A-01	001099A-02	001099A-03	001099A-04
Mercury	0.14	0.22	0.033	0.11

See Appendix for qualifier definitions

7000-1099A

ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	NP-B	NP-C	NP-D	NP-E
Lab Sample I.D.	001099A-05	001099A-06	001099A-07	001099A-08
Mercury	0.041	0.13	0.098	0.23

See Appendix for qualifier definitions

TABLE AS-1.2
7000-1099A
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	BLD2 A	BLD2 B	BLD2 C	BLD2 D
Lab Sample I.D.	001099A-09	001099A-10	001099A-11	001099A-12
Mercury	0.064	0.47	0.13	0.86

See Appendix for qualifier definitions

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	CP1		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKNQ	001398A-01		
Method Blank I.D.	SBLKNQ	SBLKNQ		
Quant. Factor	1.00	1.06		
Naphthalene	U	U		330
2-Methylnaphthalene	U	U		330
Acenaphthylene	U	U		330
Acenaphthene	U	U		330
Fluorene	U	U		330
Phenanthrene	U	11J		330
Anthracene	U	4J		330
Fluoranthene	U	21J		330
Pyrene	U	16J		330
Benzo(a)anthracene	U	10J		330
Chrysene	U	11J		330
Benzo(b)fluoranthene	U	7J		330
Benzo(k)fluoranthene	U	12J		330
Benzo(a)pyrene	U	8J		330
Indeno(1,2,3-cd)pyrene	U	U		330
Dibenzo(a,h)anthracene	U	U		330
Benzo(g,h,i)perylene	U	U		330
Date Received		07/06/00		
Date Extracted	07/10/00	07/10/00		
Date Analyzed	07/24/00	07/24/00		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7000-1398A
 ARCADIS/GERAGHTY & MILLER
 8082 POLYCHLORINATED BIPHENYL'S

00003

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	CP1	PBLK14 QC2 070700-B02	Quant. Limits with no Dilution
Lab Sample I.D.	070700-B02	001398A-01	QC2	
Method Blank I.D.	PBLK14	PBLK14	PBLK14	
Quant. Factor	1.00	1.05	1.00	
Aroclor-1016	U	U	U	33.
Aroclor-1221	U	U	U	67.
Aroclor-1232	U	U	U	33.
Aroclor-1242	U	U	190X	33.
Aroclor-1248	U	U	U	33.
Aroclor-1254	U	190	U	33.
Aroclor-1260	U	U	160X	33.
Date Received		07/06/00		
Date Extracted	07/07/00	07/07/00	07/07/00	
Date Analyzed	07/10/00	07/10/00	07/10/00	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

7000-1398A
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

00004

All values are mg/Kg dry weight basis.

Client Sample I.D.	CP1			
Lab Sample I.D.	001398A-01			
Mercury	0.014			

See Appendix for qualifier definitions

7097-1944A
GERAGHTY & MILLER
40CFR PART 261 VOLATILE ORGANICS (TCLP)

All values are ug/L.

Client Sample I.D.	Method Blank	SP-2/GP-2	8/22/	Quant. Limits with no Dilution
Lab Sample I.D.	VLKEY	971944A-05	TCLPBLK8/22/	
Method Blank I.D.	VLKEY	VLKEY	VLKEY	
Quant. Factor	1.00	1.00	1.00	
Benzene	U	.3J	U	5.0
Carbon Tetrachloride	U	U	U	5.0
Chlorobenzene	U	U	U	5.0
Chloroform	U	U	U	5.0
2-Butanone	U	U	U	10
Tetrachloroethene	U	U	U	5.0
Trichloroethene	U	U	U	5.0
Vinyl Chloride	U	U	U	10
1,2-Dichloroethane	U	U	U	5.0
1,1-Dichloroethene	U	U	U	5.0
Date Received		08/15/97		
Date Extracted	N/A	N/A	N/A	
Date Analyzed	08/21/97	08/21/97	08/21/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7097-1944A
GERAGHTY & MILLER
40CFR PART 261 SEMI-VOLATILES (TCLP)

All values are ug/L.

Client Sample I.D.	Method Blank	SP-2/GP-2	8/22	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKKJ	971944A-05	TCLPBLK8/22	
Method Blank I.D.	SBLKKJ	SBLKKJ	SBLKKJ	
Quant. Factor	1.00	2.00	2.00	
1,4-Dichlorobenzene	U	U	U	10
Hexachloroethane	U	U	U	10
Nitrobenzene	U	U	U	10
Hexachlorobutadiene	U	U	U	10
2,4,6-Trichlorophenol	U	U	U	50
2,4,5-Trichlorophenol	U	U	U	10
2,4-Dinitrotoluene	U	U	U	10
Hexachlorobenzene	U	U	U	50
Pentachlorophenol	U	U	U	10
2-Methylphenol	U	U	U	10
4-Methylphenol	U	U	U	10
Pyridine	U	U	U	10
Date Received		08/15/97		
Date Extracted	08/22/97	08/22/97	08/22/97	
Date Analyzed	08/25/97	08/25/97	08/25/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1944A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	PBLK15 QC	SP-1	Quant. Limits with no Dilution
Lab Sample I.D.	081997-B08	081997-B08QC	971944A-01	
Method Blank I.D.	PBLK15	PBLK15	PBLK15	
Quant. Factor	1.00	1.00	215.	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	240X	U	33
Aroclor-1248	U	U	43000	33
Aroclor-1254	U	U	44000	33
Aroclor-1260	U	280X	U	33
Date Received			08/15/97	
Date Extracted	08/19/97	08/19/97	08/19/97	
Date Analyzed	08/21/97	08/21/97	08/22/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1944A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	SP-2	GP-2		
Lab Sample I.D.	971944A-02	971944A-04		Quant. Limits with no Dilution
Method Blank I.D.	PBLK15	PBLK15		
Quant. Factor	21.5	21.0		
Aroclor-1016	U	U		33
Aroclor-1221	U	U		67
Aroclor-1232	U	U		33
Aroclor-1242	1700	U		33
Aroclor-1248	U	2600		33
Aroclor-1254	3200	4400		33
Aroclor-1260	U	U		33
Date Received	08/15/97	08/15/97		
Date Extracted	08/19/97	08/19/97		
Date Analyzed	08/25/97	08/22/97		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1944A
GERAGHTY & MILLER
TCLP PESTICIDES

All values are ug/L uncorrected for spike recovery.

Client Sample I.D.	Method Blank	PBLK18 QC1 082197-B02	SP-2/GP-2	Quant. Limits with no Dilution
Lab Sample I.D.	082197-B02	QC1	971944A-05	
Method Blank I.D.	PBLK18	PBLK18	PBLK18	
Quant. Factor	5.00	5.00	5.00	
Technical Chlordane	U	U	U	0.20
Toxaphene	U	U	U	1.0
Endrin	U	1.0X	U	0.10
Heptachlor	U	0.90X	U	0.050
Heptachlor Epoxide	U	0.92X	U	0.050
gamma-BHC (Lindane)	U	0.96X	U	0.050
Methoxychlor	U	1.2JX	U	0.50
Date Received			08/15/97	
Date Extracted	08/21/97	08/21/97	08/21/97	
Date Analyzed	08/22/97	08/22/97	08/22/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1944A
GERAGHTY & MILLER
TCLP PESTICIDES

All values are ug/L uncorrected for spike recovery.

Client Sample I.D.	TCLPBLK-8/19			Quant. Limits with no Dilution
Lab Sample I.D.	TCLPBLK-8/19			
Method Blank I.D.	PBLK18			
Quant. Factor	5.00			
Technical Chlordane	U			0.20
Toxaphene	U			1.0
Endrin	U			0.10
Heptachlor	U			0.050
Heptachlor Epoxide	U			0.050
gamma-BHC (Lindane)	U			0.050
Methoxychlor	U			0.50
Date Received				
Date Extracted	08/21/97			
Date Analyzed	08/22/97			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1944A
GERAGHTY & MILLER
TCLP HERBICIDES

All values are ug/L uncorrected for spike recovery.

Client Sample I.D.	Method Blank	HBLK32 QC	SP-2/GP-2	Quant. Limits with no Dilution
Lab Sample I.D.	082797-B06	082797-B06QC	971944A-05	
Method Blank I.D.	HBLK32	HBLK32	HBLK32	
Quant. Factor	5.00	5.00	5.00	
2,4-D	U	14.X	U	0.50
Silvex	U	1.5X	U	0.050
Date Received			08/15/97	
Date Extracted	08/27/97	08/27/97	08/27/97	
Date Analyzed	08/29/97	08/29/97	08/29/97	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7097-1944A
GERAGHTY & MILLER
TCLP HERBICIDES

All values are ug/L uncorrected for spike recovery.

Client Sample I.D.	TCLPBLK-8/19			Quant. Limits with no Dilution
Lab Sample I.D.	TCLPBLK-8/19			
Method Blank I.D.	HBLK32			
Quant. Factor	5.00			
2,4-D	U			0.50
Silvex	U			0.050
Date Received	08/27/97			
Date Extracted	08/29/97			
Date Analyzed				

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE AS-1.0
7097-1944A
GERAGHTY & MILLER
TCLP METALS

All values are ug/L uncorrected for spike recovery.

Client Sample I.D.	SP-2/GP-2			
Lab Sample I.D.	971944A-05			
Arsenic	300.U			
Barium	879.			
Cadmium	36.7			
Chromium	10.0U			
Lead	100.U			
Mercury	2.0U			
Selenium	500.U			
Silver	10.0U			

See Appendix for qualifier definitions

TABLE AS-1.0
7098-1295A
GERAGHTY & MILLER
TAL METALS

Aqueous

All values are ug/L.

Client Sample I.D.	HG PILE			
Lab Sample I.D.	981295A-01			
Aluminum	596.B			
Antimony	40.0U			
Arsenic	20.0U			
Barium	269.B			
Beryllium	10.0U			
Cadmium	10.0U			
Calcium	35000B			
Chromium	10.0U			
Cobalt	10.0U			
Copper	56.5B			
Iron	120.U			
Lead	290.			
Magnesium	2780B			
Manganese	281.			
Mercury	0.20U			
Nickel	20.0U			
Potassium	1630B			
Selenium	29.8B			
Silver	10.0U			
Sodium	1220000			
Thallium	34.8B			
Vanadium	10.0U			
inc	577.			

See Appendix for qualifier definitions

7098-0761A
GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are ug/L.

Client Sample I.D.	B-23 (COMP)			
Lab Sample I.D.	980761A-01			
Mercury	15.0			

See Appendix for qualifier definitions

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	DISP SOI L PILE 3		Quant. Limits with no Dilution
Lab Sample I.D.	VBLKK9	001136A-02		
Method Blank I.D.	VBLKK9	VBLKK9		
Quant. Factor	1.00	1.15		
Chloromethane	U	U		10
Bromomethane	U	U		10
Vinyl Chloride	U	U		10
Chloroethane	U	U		10
Methylene Chloride	U	6		5.0
Acetone	14	10JB		10
Carbon Disulfide	U	U		5.0
Vinyl Acetate	U	U		10
1,1-Dichloroethene	U	U		5.0
1,1-Dichloroethane	U	U		5.0
cis-1,2-Dichloroethene	U	U		5.0
trans-1,2-Dichloroethene	U	U		5.0
Chloroform	U	1J		5.0
1,2-Dichloroethane	U	U		10
2-Butanone	U	U		5.0
1,1,1-Trichloroethane	U	U		5.0
Carbon Tetrachloride	U	U		5.0
Bromodichloromethane	U	U		5.0
1,2-Dichloropropane	U	U		5.0
cis-1,3-Dichloropropene	U	U		5.0
Trichloroethene	U	U		5.0
Dibromochloromethane	U	U		5.0
1,1,2-Trichloroethane	U	U		5.0
Benzene	U	U		5.0
trans-1,3-Dichloropropene	U	U		5.0
Bromoform	U	U		10
4-Methyl-2-Pentanone	U	U		10
2-Hexanone	U	U		5.0
Tetrachloroethene	U	U		5.0
Toluene	U	U		5.0
1,1,2,2-Tetrachloroethane	U	U		5.0
Chlorobenzene	U	U		5.0
Ethylbenzene	U	U		5.0
Styrene	U	U		5.0
Xylene (total)	U	U		5.0
Date Received		06/03/00		
Date Extracted	N/A	N/A		
Date Analyzed	06/12/00	06/12/00		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

All values are ug/L uncorrected for spike recovery.

Client Sample I.D.	DISP SOI L PILE 3			
Lab Sample I.D.	001136A-02			
Arsenic	12.1			
Barium	1190			
Cadmium	8.1			
Chromium	4.7B			
Copper	58.4			
Lead	2340			
Mercury	1.0U			
Nickel	13.0B			
Selenium	12.6N			
Silver	0.87B			
Zinc	1390			

See Appendix for qualifier definitions

7098-0088A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	Method Blank	N10115T	MW-1	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKDK	980088A-01	980088A-02	
Method Blank I.D.	VBLKDK	VBLKDK	VBLKDK	
Quant. Factor	1.00	1.00	1.00	
Chloromethane	U	U	U	10
Bromomethane	U	U	U	10
Vinyl Chloride	U	U	U	10
Chloroethane	U	U	U	10
Methylene Chloride	U	U	U	10
Acetone	5J	6JB	U	10
Carbon Disulfide	U	U	U	10
1,1-Dichloroethene	U	U	U	10
1,1-Dichloroethane	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	10
Chloroform	U	U	U	10
1,2-Dichloroethane	U	U	U	10
2-Butanone	U	U	U	10
1,1,1-Trichloroethane	U	U	U	10
Carbon Tetrachloride	U	U	U	10
Bromodichloromethane	U	U	U	10
1,2-Dichloropropane	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	10
Trichloroethene	U	U	U	10
Dibromochloromethane	U	U	U	10
1,1,2-Trichloroethane	U	U	U	10
Benzene	U	U	U	10
trans-1,3-Dichloropropene	U	U	U	10
Bromoform	U	U	U	10
4-Methyl-2-Pentanone	U	4J	U	10
2-Hexanone	U	U	U	10
Tetrachloroethene	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	10
Toluene	U	2J	U	10
Chlorobenzene	U	U	U	10
Ethylbenzene	U	U	U	10
Styrene	U	U	U	10
Xylene (total)	U	U	U	10
Date Received		01/14/98	01/14/98	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	01/19/98	01/19/98	01/19/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

7098-0088A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	MW-2	MW-3	REP-1	Quant. Limits with no Dilution
Lab Sample I.D.	980088A-03	980088A-04	980088A-05	
Method Blank I.D.	VBLKDK	VBLKDK	VBLKDK	
Quant. Factor	1.00	1.00	1.00	
Chloromethane	U	U	U	10
Bromomethane	U	U	U	10
Vinyl Chloride	U	U	U	10
Chloroethane	U	U	U	10
Methylene Chloride	U	U	U	10
Acetone	U	U	U	10
Carbon Disulfide	U	U	U	10
1,1-Dichloroethene	U	2J	2J	10
1,1-Dichloroethane	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	10
Chloroform	U	U	U	10
1,2-Dichloroethane	U	U	U	10
2-Butanone	U	U	U	10
1,1,1-Trichloroethane	U	U	U	10
Carbon Tetrachloride	U	U	U	10
Bromodichloromethane	U	U	U	10
1,2-Dichloropropane	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	10
Trichloroethene	U	U	U	10
Dibromochloromethane	U	U	U	10
1,1,2-Trichloroethane	U	U	U	10
Benzene	U	U	U	10
trans-1,3-Dichloropropene	U	U	U	10
Bromoform	U	U	U	10
4-Methyl-2-Pentanone	U	U	U	10
2-Hexanone	U	U	U	10
Tetrachloroethene	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	10
Toluene	U	U	U	10
Chlorobenzene	U	U	U	10
Ethylbenzene	U	U	U	10
Styrene	U	U	U	10
Xylene (total)	U	U	U	10
Date Received	01/14/98	01/14/98	01/14/98	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	01/19/98	01/19/98	01/19/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor

Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7098-0088A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	FB 011398	TB 011398		Quant. Limits with no Dilution
Lab Sample I.D.	980088A-06	980088A-07		
Method Blank I.D.	VBLKDK	VBLKDK		
Quant. Factor	1.00	1.00		
Chloromethane	U	U		10
Bromomethane	U	U		10
Vinyl Chloride	U	U		10
Chloroethane	U	U		10
Methylene Chloride	U	U		10
Acetone	U	U		10
Carbon Disulfide	U	U		10
1,1-Dichloroethene	U	U		10
1,1-Dichloroethane	U	U		10
1,2-Dichloroethene (total)	U	U		10
Chloroform	U	U		10
1,2-Dichloroethane	U	U		10
2-Butanone	U	U		10
1,1,1-Trichloroethane	U	U		10
Carbon Tetrachloride	U	U		10
Bromodichloromethane	U	U		10
1,2-Dichloropropane	U	U		10
cis-1,3-Dichloropropene	U	U		10
Trichloroethene	U	U		10
Dibromochloromethane	U	U		10
1,1,2-Trichloroethane	U	U		10
Benzene	U	U		10
trans-1,3-Dichloropropene	U	U		10
Bromoform	U	U		10
4-Methyl-2-Pentanone	U	U		10
2-Hexanone	U	U		10
Tetrachloroethene	U	U		10
1,1,2,2-Tetrachloroethane	U	U		10
Toluene	U	U		10
Chlorobenzene	U	U		10
Ethylbenzene	U	U		10
Styrene	U	U		10
Xylene (total)	U	U		10
Date Received	01/14/98	01/14/98		
Date Extracted	N/A	N/A		
Date Analyzed	01/19/98	01/19/98		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7098-0088A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	Method Blank	MW-2 MS	MW-2 MSD 980088A-03	Quant. Limits with no Dilution
Lab Sample I.D.	VLKDL	980088A-03MS	MSD	
Method Blank I.D.	VLKDL	VLKDL	VLKDL	
Quant. Factor	1.00	1.00	1.00	
Chloromethane	U	U	U	10
Bromomethane	U	U	U	10
Vinyl Chloride	U	U	U	10
Chloroethane	U	U	U	10
Methylene Chloride	U	U	U	10
Acetone	U	U	4J	10
Carbon Disulfide	U	U	U	10
1,1-Dichloroethene	U	53X	52X	10
1,1-Dichloroethane	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	10
Chloroform	U	U	U	10
1,2-Dichloroethane	U	U	U	10
2-Butanone	U	U	U	10
1,1,1-Trichloroethane	U	U	U	10
Carbon Tetrachloride	U	U	U	10
Bromodichloromethane	U	U	U	10
1,2-Dichloropropane	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	10
Trichloroethene	U	47X	46X	10
Dibromochloromethane	U	U	U	10
1,1,2-Trichloroethane	U	U	U	10
Benzene	U	49X	48X	10
trans-1,3-Dichloropropene	U	U	U	10
Bromoform	U	U	U	10
4-Methyl-2-Pentanone	U	U	U	10
2-Hexanone	U	U	U	10
Tetrachloroethene	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	10
Toluene	U	49X	48X	10
Chlorobenzene	U	49X	49X	10
Ethylbenzene	U	U	U	10
Styrene	U	U	U	10
Xylene (total)	U	U	U	10
Date Received		01/14/98	01/14/98	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	01/19/98	01/19/98	01/19/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

All values are ug/L.

Client Sample I.D.	Method Blank	N10115T	MW-1	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKGJ	980088A-01	980088A-02	
Method Blank I.D.	SBLKGJ	SBLKGJ	SBLKGJ	
Quant. Factor	1.00	1.08	1.06	
Phenol	U	2J	U	10
bis(2-Chloroethyl) ether	U	U	U	10
2-Chlorophenol	U	U	U	10
1,3-Dichlorobenzene	U	U	U	10
1,4-Dichlorobenzene	U	U	U	10
1,2-Dichlorobenzene	U	U	U	10
2-Methylphenol	U	U	U	10
2,2'-oxybis(1-Chloropropane)	U	U	U	10
4-Methylphenol	U	U	U	10
N-Nitroso-di-n-propylamine	U	U	U	10
Hexachloroethane	U	U	U	10
Nitrobenzene	U	U	U	10
Isophorone	U	U	U	10
2-Nitrophenol	U	U	U	10
2,4-Dimethylphenol	U	U	U	10
bis(2-Chloroethoxy) methane	U	U	U	10
2,4-Dichlorophenol	U	U	U	10
1,2,4-Trichlorobenzene	U	U	U	10
Naphthalene	U	U	U	10
4-Chloroaniline	U	U	U	10
Hexachlorobutadiene	U	U	U	10
1-Chloro-3-methylphenol	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Hexachlorocyclopentadiene	U	U	U	10
2,4,6-Trichlorophenol	U	U	U	25
2,4,5-Trichlorophenol	U	U	U	10
2-Chloronaphthalene	U	U	U	25
2-Nitroaniline	U	U	U	10
Dimethylphthalate	U	U	U	10
Acenaphthylene	U	U	U	10
2,6-Dinitrotoluene	U	U	U	25
3-Nitroaniline	U	U	U	10
Acenaphthene	U	U	U	25
2,4-Dinitrophenol	U	U	U	25
4-Nitrophenol	U	U	U	25
Date Received		01/14/98	01/14/98	
Date Extracted	01/16/98	01/16/98	01/16/98	
Date Analyzed	02/04/98	02/04/98	02/04/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

All values are ug/L.

Client Sample I.D.	Method Blank	N10115T	MW-1	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKGJ	980088A-01	980088A-02	
Method Blank I.D.	SBLKGJ	SBLKGJ	SBLKGJ	
Quant. Factor	1.00	1.08	1.06	
Dibenzofuran	U	U	U	10
2,4-Dinitrotoluene	U	U	U	10
Diethylphthalate	.4J	.8JB	U	10
4-Chlorophenyl-phenylether	U	U	U	10
Fluorene	U	U	U	10
4-Nitroaniline	U	U	U	25
4,6-Dinitro-2-methylphenol	U	U	U	25
N-Nitrosodiphenylamine (1)	U	U	U	10
4-Bromophenyl-phenylether	U	U	U	10
Hexachlorobenzene	U	U	U	10
Pentachlorophenol	U	U	U	25
Phenanthrene	U	U	U	10
Anthracene	U	U	U	10
Carbazole	U	U	U	10
Di-n-butylphthalate	.6J	4JB	U	10
Fluoranthene	U	U	U	10
Pyrene	U	U	U	10
Butylbenzylphthalate	U	U	U	10
3,3'-Dichlorobenzidine	U	U	U	10
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	U	10
bis(2-Ethylhexyl)phthalate	U	51	U	10
Di-n-octylphthalate	U	U	U	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenz(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received		01/14/98	01/14/98	
Date Extracted	01/16/98	01/16/98	01/16/98	
Date Analyzed	02/04/98	02/04/98	02/04/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

All values are ug/L.

Client Sample I.D.	MW-2	MW-2 MS	MW-2 MSD 980088A-03	Quant. Limits with no Dilution
Lab Sample I.D.	980088A-03	980088A-03MS	MSD	
Method Blank I.D.	SBLKGJ	SBLKGJ	SBLKGJ	
Quant. Factor	1.04	1.00	1.06	
Phenol	U	37X	43X	10
bis(2-Chloroethyl) ether	U	U	U	10
2-Chlorophenol	U	44X	47X	10
1,3-Dichlorobenzene	U	U	U	10
1,4-Dichlorobenzene	U	30X	32X	10
1,2-Dichlorobenzene	U	U	U	10
2-Methylphenol	U	U	U	10
2,2'-oxybis(1-Chloropropane)	U	U	U	10
4-Methylphenol	U	U	U	10
N-Nitroso-di-n-propylamine	U	34X	38X	10
Hexachloroethane	U	U	U	10
Nitrobenzene	U	U	U	10
Isophorone	U	U	U	10
2-Nitrophenol	U	U	U	10
2,4-Dimethylphenol	U	U	U	10
bis(2-Chloroethoxy) methane	U	U	U	10
2,4-Dichlorophenol	U	U	U	10
1,2,4-Trichlorobenzene	U	32X	35X	10
Naphthalene	U	U	U	10
4-Chloroaniline	U	U	U	10
Hexachlorobutadiene	U	U	U	10
1-Chloro-3-methylphenol	U	35X	40X	10
2-Methylnaphthalene	U	U	U	10
Hexachlorocyclopentadiene	U	U	U	10
2,4,6-Trichlorophenol	U	U	U	25
2,4,5-Trichlorophenol	U	U	U	25
2-Chloronaphthalene	U	U	U	25
2-Nitroaniline	U	U	U	10
Dimethylphthalate	U	U	U	10
Acenaphthylene	U	U	U	10
2,6-Dinitrotoluene	U	U	U	25
3-Nitroaniline	U	U	U	10
Acenaphthene	U	30X	32X	25
2,4-Dinitrophenol	U	U	U	25
4-Nitrophenol	U	37X	40X	25
Date Received	01/14/98	01/14/98	01/14/98	
Date Extracted	01/16/98	01/16/98	01/16/98	
Date Analyzed	02/04/98	02/04/98	02/04/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

All values are ug/L.

Client Sample I.D.	MW-2	MW-2 MS	MW-2 MSD 980088A-03	Quant. Limits with no Dilution
Lab Sample I.D.	980088A-03	980088A-03MS	MSD	
Method Blank I.D.	SBLKGJ	SBLKGJ	SBLKGJ	
Quant. Factor	1.04	1.00	1.06	
Dibenzofuran	U	U	U	10
2,4-Dinitrotoluene	U	33X	33X	10
Diethylphthalate	U	U	U	10
4-Chlorophenyl-phenylether	U	U	U	10
Fluorene	U	U	U	10
4-Nitroaniline	U	U	U	25
4,6-Dinitro-2-methylphenol	U	U	U	25
N-Nitrosodiphenylamine (1)	U	U	U	10
4-Bromophenyl-phenylether	U	U	U	10
Hexachlorobenzene	U	U	U	10
Pentachlorophenol	U	52X	48X	25
Phenanthrene	U	U	U	10
Anthracene	U	U	U	10
Carbazole	U	U	U	10
Di-n-butylphthalate	U	U	U	10
Fluoranthene	U	U	U	10
Pyrene	U	29X	33X	10
Butylbenzylphthalate	U	U	U	10
3,3'-Dichlorobenzidine	U	U	U	10
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	U	10
cis(2-Ethylhexyl)phthalate	U	.7J	U	10
Di-n-octylphthalate	U	U	U	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenz(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received	01/14/98	01/14/98	01/14/98	
Date Extracted	01/16/98	01/16/98	01/16/98	
Date Analyzed	02/04/98	02/04/98	02/04/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

All values are ug/L.

Client Sample I.D.	MW-3	REP-1	FB 011398	Quant. Limits with no Dilution
Lab Sample I.D.	980088A-04	980088A-05	980088A-06	
Method Blank I.D.	SBLKGJ	SBLKGJ	SBLKGJ	
Quant. Factor	1.05	1.05	1.04	
Phenol	U	U	U	10
bis(2-Chloroethyl) ether	U	U	U	10
2-Chlorophenol	U	U	U	10
1,3-Dichlorobenzene	U	U	U	10
1,4-Dichlorobenzene	U	U	U	10
1,2-Dichlorobenzene	U	U	U	10
2-Methylphenol	U	U	U	10
2,2'-oxybis(1-Chloropropane)	U	U	U	10
4-Methylphenol	U	U	U	10
N-Nitroso-di-n-propylamine	U	U	U	10
Hexachloroethane	U	U	U	10
Nitrobenzene	U	U	U	10
Isophorone	U	U	U	10
2-Nitrophenol	U	U	U	10
2,4-Dimethylphenol	U	U	U	10
bis(2-Chloroethoxy) methane	U	U	U	10
2,4-Dichlorophenol	U	U	U	10
1,2,4-Trichlorobenzene	U	U	U	10
Naphthalene	U	U	U	10
4-Chloroaniline	U	U	U	10
Hexachlorobutadiene	U	U	U	10
1-Chloro-3-methylphenol	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Hexachlorocyclopentadiene	U	U	U	10
2,4,6-Trichlorophenol	U	U	U	10
2,4,5-Trichlorophenol	U	U	U	25
2-Chloronaphthalene	U	U	U	10
2-Nitroaniline	U	U	U	25
Dimethylphthalate	U	U	U	10
Acenaphthylene	U	U	U	10
2,6-Dinitrotoluene	U	U	U	10
3-Nitroaniline	U	U	U	25
Acenaphthene	U	U	U	10
2,4-Dinitrophenol	U	U	U	25
4-Nitrophenol	U	U	U	25
Date Received	01/14/98	01/14/98	01/14/98	
Date Extracted	01/16/98	01/16/98	01/16/98	
Date Analyzed	02/04/98	02/04/98	02/04/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

All values are ug/L.

Client Sample I.D.	MW-3	REP-1	FB 011398	Quant. Limits with no Dilution
Lab Sample I.D.	980088A-04	980088A-05	980088A-06	
Method Blank I.D.	SBLKGJ	SBLKGJ	SBLKGJ	
Quant. Factor	1.05	1.05	1.04	
Dibenzofuran	U	U	U	10
2,4-Dinitrotoluene	U	U	U	10
Diethylphthalate	.5JB	.4JB	.4JB	10
4-Chlorophenyl-phenylether	U	U	U	10
Fluorene	U	U	U	10
4-Nitroaniline	U	U	U	25
4,6-Dinitro-2-methylphenol	U	U	U	25
N-Nitrosodiphenylamine (1)	U	U	U	10
4-Bromophenyl-phenylether	U	U	U	10
Hexachlorobenzene	U	U	U	10
Pentachlorophenol	U	U	U	25
Phenanthrene	U	U	U	10
Anthracene	U	U	U	10
Carbazole	U	U	U	10
Di-n-butylphthalate	.4JB	.6JB	.7JB	10
Fluoranthene	U	U	U	10
Pyrene	U	U	U	10
Butylbenzylphthalate	U	U	U	10
3,3'-Dichlorobenzidine	U	U	U	10
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	U	10
bis(2-Ethylhexyl)phthalate	U	2J	2J	10
Di-n-octylphthalate	U	U	U	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenz(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received	01/14/98	01/14/98	01/14/98	
Date Extracted	01/16/98	01/16/98	01/16/98	
Date Analyzed	02/04/98	02/04/98	02/04/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

All values are ug/L.

Client Sample I.D.	Method Blank	MW-1 RE		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKII	980088A-02RE		
Method Blank I.D.	SBLKII	SBLKII		
Quant. Factor	1.00	1.00		
Phenol	U	U		10
bis(2-Chloroethyl) ether	U	U		10
2-Chlorophenol	U	U		10
1,3-Dichlorobenzene	U	U		10
1,4-Dichlorobenzene	U	U		10
1,2-Dichlorobenzene	U	U		10
2-Methylphenol	U	U		10
2,2'-oxybis(1-Chloropropane)	U	U		10
4-Methylphenol	U	U		10
N-Nitroso-di-n-propylamine	U	U		10
Hexachloroethane	U	U		10
Nitrobenzene	U	U		10
Isophorone	U	U		10
2-Nitrophenol	U	U		10
2,4-Dimethylphenol	U	U		10
bis(2-Chloroethoxy) methane	U	U		10
2,4-Dichlorophenol	U	U		10
1,2,4-Trichlorobenzene	U	U		10
Naphthalene	U	U		10
4-Chloroaniline	U	U		10
Hexachlorobutadiene	U	U		10
1-Chloro-3-methylphenol	U	U		10
2-Methylnaphthalene	U	U		10
Hexachlorocyclopentadiene	U	U		10
2,4,6-Trichlorophenol	U	U		25
2,4,5-Trichlorophenol	U	U		10
2-Chloronaphthalene	U	U		25
2-Nitroaniline	U	U		10
Dimethylphthalate	U	U		10
Acenaphthylene	U	U		10
2,6-Dinitrotoluene	U	U		25
3-Nitroaniline	U	U		10
Acenaphthene	U	U		25
2,4-Dinitrophenol	U	U		25
4-Nitrophenol	U	U		
Date Received		01/14/98		
Date Extracted	02/05/98	02/05/98		
Date Analyzed	02/11/98	02/11/98		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

All values are ug/L.

Client Sample I.D.	Method Blank	MW-1 RE		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKII	980088A-02RE		
Method Blank I.D.	SBLKII	SBLKII		
Quant. Factor	1.00	1.00		
Dibenzofuran	U	U		10
2,4-Dinitrotoluene	U	U		10
Diethylphthalate	U	U		10
4-Chlorophenyl-phenylether	U	U		10
Fluorene	U	U		10
4-Nitroaniline	U	U		25
4,6-Dinitro-2-methylphenol	U	U		25
N-Nitrosodiphenylamine (1)	U	U		10
4-Bromophenyl-phenylether	U	U		10
Hexachlorobenzene	U	U		10
Pentachlorophenol	U	U		25
Phenanthrene	U	U		10
Anthracene	U	U		10
Carbazole	U	U		10
Di-n-butylphthalate	.7J	.6JB		10
Fluoranthene	U	U		10
Pyrene	U	U		10
Butylbenzylphthalate	U	U		10
3,3'-Dichlorobenzidine	U	U		10
Benzo(a)anthracene	U	U		10
Chrysene	U	U		10
bis(2-Ethylhexyl)phthalate	U	U		10
Di-n-octylphthalate	U	U		10
Benzo(b)fluoranthene	U	U		10
Benzo(k)fluoranthene	U	U		10
Benzo(a)pyrene	U	U		10
Indeno(1,2,3-cd)pyrene	U	U		10
Dibenz(a,h)anthracene	U	U		10
Benzo(g,h,i)perylene	U	U		10
Date Received		01/14/98		
Date Extracted	02/05/98	02/05/98		
Date Analyzed	02/11/98	02/11/98		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7098-0088A
GERAGHTY & MILLER
POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	Method Blank	N10115T	MW-1	Quant. Limits with no Dilution
Lab Sample I.D.	011598-B04	980088A-01	980088A-02	
Method Blank I.D.	PBLK07	PBLK07	PBLK07	
Quant. Factor	1.00	1.18	1.25	
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	10.	0.58JP	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	U	1.0
Aroclor-1260	U	U	U	1.0
Date Received		01/14/98	01/14/98	
Date Extracted	01/15/98	01/15/98	01/15/98	
Date Analyzed	01/19/98	01/19/98	01/19/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7098-0088A
GERAGHTY & MILLER
POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	MW-2	MW-2 MS	MW-2 MSD 980088A-03	Quant. Limits with no Dilution
Lab Sample I.D.	980088A-03	980088A-03MS	MSD	
Method Blank I.D.	PBLK07	PBLK07	PBLK07	
Quant. Factor	1.00	1.00	1.00	
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	0.13J	0.16JP	0.17JP	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	U	1.0
Aroclor-1260	U	1.4PX	1.4X	1.0
Date Received	01/14/98	01/14/98	01/14/98	
Date Extracted	01/15/98	01/15/98	01/15/98	
Date Analyzed	01/19/98	01/20/98	01/20/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

7098-0088A
GERAGHTY & MILLER
POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	MW-3	REP-1	FB 011398	
Lab Sample I.D.	980088A-04	980088A-05	980088A-06	Quant. Limits
Method Blank I.D.	PBLK07	PBLK07	PBLK07	with no
Quant. Factor	1.00	1.00	1.05	Dilution
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	0.070J	0.066JP	U	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	U	1.0
Aroclor-1260	U	U	U	1.0
Date Received	01/14/98	01/14/98	01/14/98	
Date Extracted	01/15/98	01/15/98	01/15/98	
Date Analyzed	01/20/98	01/20/98	01/20/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

7098-0088A
GERAGHTY & MILLER
TAL METALS (Dissolved)

All values are ug/L.

Client Sample I.D.	N10115T	MW-1	FB 011398	
Lab Sample I.D.	980088A-01	980088A-02	980088A-06	
Aluminum	39.4BE	39.1BE	40.6BE	
Antimony	4.5B	3.0U	6.6B	
Arsenic	2.0U	2.0U	2.0U	
Barium	48.9B	65.7B	1.0U	
Beryllium	1.0U	1.0U	1.0U	
Cadmium	1.0U	1.0B	1.0U	
Calcium	5750	43600	130.B	
Chromium	1.0U	1.0U	1.0U	
Cobalt	1.0U	1.0U	1.0U	
Copper	10.0U	10.0U	10.0U	
Iron	3230	7.0U	30.0B	
Lead	1.6B	1.0U	1.0U	
Magnesium	2210B	9970	12.7B	
Manganese	214.	9.8B	2.3B	
Mercury	0.20U	0.20U	0.20U	
Nickel	5.3B	2.6B	2.9B	
Potassium	825.BE	2220BE	34.3BE	
Selenium	2.0U	2.4B	2.0U	
Silver	1.0U	1.0U	1.0U	
Sodium	6530E	7370E	39.5BE	
Thallium	2.0U	2.0U	2.0U	
Vanadium	1.0U	1.0U	1.0U	
Zinc	69.7	40.8	65.1	

See Appendix for qualifier definitions

7098-0088A
GERAGHTY & MILLER
TAL METALS (Total)

All values are ug/L.

Client Sample I.D.	N10115T	MW-1	MW-2	MW-2 D
Lab Sample I.D.	980088A-01	980088A-02	980088A-03	980088A-03D
Aluminum	206.E	6250E	1020E	1020
Antimony	3.0U	3.0U	3.0U	4.0B
Arsenic	2.0U	3.4B	2.0U	2.0U
Barium	60.0B	97.7B	40.3B	36.3B
Beryllium	1.0U	1.0U	1.0U	1.0U
Cadmium	1.0U	1.0U	1.0B	1.0U
Calcium	6170	47900	55900	49400
Chromium	2.7B	8.2B	3.0B	1.0U
Cobalt	2.5B	1.0U	1.5B	1.3B
Copper	242.	10.0U	10.0U	10.0U
Iron	49800	5420	411.	394.
Lead	13.3	5.2	1.0U	1.0U
Magnesium	2400B	11000	8470	7520
Manganese	470.	29.2	14.9B	13.0B
Mercury	0.32	0.20U	0.20U	0.20U
Nickel	9.5B	5.8B	8.6B	6.2B
Potassium	925.BE	2850BE	2620BE	2310B
Selenium	3.4B	3.2B	2.8B	2.0U
Silver	1.0U	1.0U	1.0U	1.0U
Sodium	7100E	7920E	11400E	9960
Thallium	2.0U	2.0U	2.0U	2.0U
Vanadium	1.0U	11.4B	1.4B	1.3B
Zinc	95.9	43.7	23.8	19.1B

See Appendix for qualifier definitions

7098-0088A
GERAGHTY & MILLER
TAL METALS (Total)

All values are ug/L.

Client Sample I.D.	MW-2 S	MW-3	REP-1	FB 011398
Lab Sample I.D.	980088A-03S	980088A-04	980088A-05	980088A-06
Aluminum	3470	886.E	623.E	38.0BE
Antimony	497.	3.0U	3.1B	3.8B
Arsenic	42.7	2.0U	2.0U	2.0U
Barium	1960	57.7B	60.5B	1.0U
Beryllium	51.3	1.0U	1.0U	1.0U
Cadmium	6.4	1.0U	1.1B	1.0U
Calcium	NR	31100	30400	17.3B
Chromium	187.	1.4B	1.0B	1.0U
Cobalt	466.	1.0U	1.0U	1.0U
Copper	251.	10.0U	10.0U	10.0U
Iron	1440	406.	231.	13.7B
Lead	22.5	1.0U	1.6B	1.0U
Magnesium	NR	5300	5370	8.0U
Manganese	496.	34.8	38.1	1.0U
Mercury	5.3	0.20U	0.20U	0.20U
Nickel	482.	5.2B	5.1B	2.0U
Potassium	NR	2130BE	2200BE	18.0UE
Selenium	13.4	2.2B	2.1B	2.0U
Silver	18.1	1.0U	1.0U	1.0U
Sodium	NR	15900E	16500E	29.8BE
Thallium	45.4	2.0U	2.0U	2.0U
Vanadium	461.	1.5B	1.1B	1.0U
Zinc	514.	25.1	24.9	8.5B

See Appendix for qualifier definitions

7098-0593A
GERAGHTY & MILLER
POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	Method Blank	MW-10115T	MW-1	Quant. Limits with no Dilution
Lab Sample I.D.	031698-B08	980593A-01	980593A-02	
Method Blank I.D.	PBLK40	PBLK40	PBLK40	
Quant. Factor	1.00	1.18	1.00	
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	U	U	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	U	1.0
Aroclor-1260	U	U	U	1.0
Date Received		03/13/98	03/13/98	
Date Extracted	03/16/98	03/16/98	03/16/98	
Date Analyzed	04/07/98	04/07/98	04/07/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

7098-0593A
GERAGHTY & MILLER
POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	MW-3	MW-3 MS	MW-3 MSD 980593A-03	Quant. Limits with no Dilution
Lab Sample I.D.	980593A-03	980593A-03MS	MSD	
Method Blank I.D.	PBLK40	PBLK40	PBLK40	
Quant. Factor	1.00	1.11	1.05	
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	U	U	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	U	1.0
Aroclor-1260	U	1.5PX	1.4PX	1.0
Date Received	03/13/98	03/13/98	03/13/98	
Date Extracted	03/16/98	03/16/98	03/16/98	
Date Analyzed	04/07/98	04/07/98	04/07/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

7098-0593A
GERAGHTY & MILLER
POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	MW-2	FB 031298	REP 031298	Quant. Limits with no Dilution
Lab Sample I.D.	980593A-04	980593A-05	980593A-06	
Method Blank I.D.	PBLK40	PBLK40	PBLK40	
Quant. Factor	1.05	1.11	1.05	
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	U	U	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	U	1.0
Aroclor-1260	U	U	U	1.0
Date Received	03/13/98	03/13/98	03/13/98	
Date Extracted	03/16/98	03/16/98	03/16/98	
Date Analyzed	04/07/98	04/07/98	04/07/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

TABLE GC-1.0
7098-1082A
GERAGHTY & MILLER
POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	Method Blank	PBLK83 QC2 051898-B04	N-10115T 981082A-01 PBLK83	Quant. Limits with no Dilution
Lab Sample I.D.	051898-B04	QC2	1.11	
Method Blank I.D.	PBLK83	PBLK83		
Quant. Factor	1.00	1.00		
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	5.3X	U	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	U	1.0
Aroclor-1260	U	9.9X	U	1.0
Date Received			05/14/98	
Date Extracted	05/18/98	05/18/98	05/18/98	
Date Analyzed	05/26/98	05/26/98	05/26/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE GC-1.1
7098-1082A
GERAGHTY & MILLER
POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	MW-1	MW-2	MW-2 MS	Quant. Limits with no Dilution
Lab Sample I.D.	981082A-02	981082A-03	981082A-03MS	
Method Blank I.D.	PBLK83	PBLK83	PBLK83	
Quant. Factor	1.11	1.05	1.05	
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	U	U	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	U	1.0
Aroclor-1260	U	U	1.6PX	1.0
Date Received	05/14/98	05/14/98	05/14/98	
Date Extracted	05/18/98	05/18/98	05/18/98	
Date Analyzed	05/26/98	05/26/98	05/26/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE GC-1.2
7098-1082A
GERAGHTY & MILLER
POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	MW-2 MSD 981082A-03	MW-3	FB 051398	Quant. Limits with no Dilution
Lab Sample I.D.	MSD	981082A-04	981082A-05	
Method Blank I.D.	PBLK83	PBLK83	PBLK83	
Quant. Factor	1.05	1.11	1.18	
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	U	U	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	U	1.0
Aroclor-1260	1.9PX	U	U	1.0
Date Received	05/14/98	05/14/98	05/14/98	
Date Extracted	05/18/98	05/18/98	05/18/98	
Date Analyzed	05/26/98	05/26/98	05/26/98	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE GC-1.3
7098-1082A
GERAGHTY & MILLER
POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	REP 051398			Quant. Limits with no Dilution
Lab Sample I.D.	981082A-06			
Method Blank I.D.	PBLK83			
Quant. Factor	1.05			
Aroclor-1016	U			1.0
Aroclor-1221	U			2.0
Aroclor-1232	U			1.0
Aroclor-1242	U			1.0
Aroclor-1248	U			1.0
Aroclor-1254	U			1.0
Aroclor-1260	U			1.0
Date Received	05/14/98			
Date Extracted	05/18/98			
Date Analyzed	05/26/98			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

ORGANICS APPENDIX

- U - Indicates that the compound was analyzed for but not detected.
- J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.
- B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.
- N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.
- S - Estimated due to surrogate outliers.
- X - Matrix spike compound.
- (1) - Cannot be separated.
- (2) - Decomposes to azobenzene. Measured and calibrated as azobenzene.
- A - This flag indicates that a TIC is a suspected aldol condensation product.
- E - Indicates that it exceeds calibration curve range.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- C - Confirmed by GC/MS.
- T - Compound present in TCLP blank.
- P - This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

INORGANICS APPENDIX

C - Concentration qualifiers

- U - Indicates analyte was not detected at method reporting limit.
- B - Indicates analyte result between IDL and contract required detection limit (CRDL)

Q - QC qualifiers

- E - Reported value is estimated because of the presence of interference
- M - Duplicate injection precision not met
- N - Spiked sample recovery not within control limits
- S - The reported value was determined by the method of standard additions (MSA)
- W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance
- * - Duplicate analysis not within control limit
- + - Correlation coefficient for MSA is less than 0.995

M - Method codes

- P - ICP
- A - Flame AA
- F - Furnace AA
- CV - Cold vapor AA (manual)
- C - Cyanide
- NR - Not Required
- NC - Not Calculated as per protocols